



NEW ENGLAND CHAPTER NEWSLETTER



DON'T MISS OUT ON OUR NEXT MEETING:

When:
November 15th 2018

Topic:
Sustainable Product
Development

Presented by:
Giorgio Dell'Acqua, PhD

Registration begins at 5pm. at:
Romaine's Restaurant
299 West Main Street
Northborough, MA 01532

COST

STUDENTS— FREE

NESCC MEMBERS - \$50

NON MEMBERS - \$55

HOW TO REGISTER:

1. On our Website: www.NewEnglandSCC.org
 2. Call or email Beth - [413] 537-1070
or Beth.McGowan6713@gmail.com
- OR
3. Pre-pay by credit card and be automatically registered - go to Paypal, www.PayPal.com and enter email of PaypalPayment@NewEnglandSCC.org

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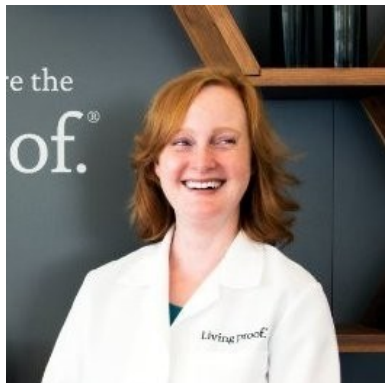
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NOTES FROM THE CHAIR

It is hard to believe it is already November. In case you missed them, the Chapter has had a number of great events in the last two months.

Thank you to Jim Hammer and all the members who attended the September Chapter meeting at Living Proof. Jim gave a great overview on all the aspects of formulating aerosols: from the different types to formulation challenges and regulatory aspects, peppered with amusing anecdotes. While I have launched a few aerosol products during my career, I walked away learning a few things I didn't know.

Karl Popp arranged an amazing list of speakers for last month's Educational Seminar on Cosmetic Product Preservation. Steve Schnittger from Estee Lauder, Howard Brown from Lincoln Fine Ingredients, Rocco Burgo from Inolex, Dr. Patrick Crowley from Callum Consultancy, and Tia Alkazaz from Active Micro Technologies all did an amazing job enlightening us on the trends, changing regulations, and challenges facing chemists while selecting the right preservative system. All of our speakers have graciously made their presentations available on our website, so you can refer back to them. Special thanks to our sponsors—Active Micro Technologies, Koster Keunen, Lincoln Fine Ingredients, Lubrizol, Schulke, Symrise, and Thor Specialty Chemicals—for your support and tabletop presentations.

While the year is winding down, we still have a few events planned for 2018. Join us on Thursday, November 15th, for our final Chapter Meeting. Giorgio Dell'Acqua will present on Sustainable Product Development. More and more brands are trying to appeal to millennials, a demographic concerned with climate change and other issues. How does sustainability carry over into product development? In addition, National SCC President, Perry Romanowski, will be in attendance to install the chapter officers for 2019. The officers for next year will be:

Chair—Emily Nichols

Chair Elect—Kaylee Miller

Secretary—Joy Welsh

Treasurer—Beth McGowan

We are happy to include part two of the article “Beeswax: Back to Basics”, submitted by Belen Lemieux and Steven

Notes From the Chair Continued

Puleo. If you missed part one, you can find it in the August 2018 newsletter, saved on our website. If you'd like to submit your own article for publication, or if there are specific topics you'd like to see in future newsletters or chapter meetings, please let us know. We are always looking for new content.

Lastly, if you haven't done so already, I'd like to encourage you to renew your SCC Membership. In addition to the benefits you receive as a member—free subscription to the Journal of Cosmetic Science, discounted access to both National and Chapter meetings—the local chapter receives benefits based on our membership retention. Because our chapter is small, National will give us the opportunity to host a Continuing Education Course for free if we can meet a 95% member retention. We don't want to lose the opportunity to offer this content locally. But, in order to do so, we need your support. Please take the time to renew your membership today.

I look forward to seeing everyone at the Chapter Meeting on November 15th.

Best,

Lauren Trahan

Chairperson



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November 15th Speaker Information

Giorgio Dell'Acqua



Giorgio Dell'Acqua, PhD, is a scientist and consultant for the personal care industry. Dr. Dell'Acqua graduated from The University of Rome, Italy, and worked for 15 years as an investigator in applied medical research in universities such as Mount Sinai Medical School in New York and Harvard Medical School in Boston. He has spent the last 17 years as an executive and cosmetic scientist in the personal care industry. He is specialized in skin and hair care ingredients, finished product development and technical marketing. He has covered multiple roles as a manager and director in different companies specialized in active ingredients and product development. He has helped bring more than 200 successful active ingredients and finished products to market, and has authored more than 60 publications in medicine and cosmetic science. In the last 10 years, he has been writing and lecturing on natural cosmetic ingredients, sustainable supply chain, and helped source, develop, and bring to market many natural ingredients. He is an award winning speaker on natural ingredients, a regular columnist on sustainable cosmetic

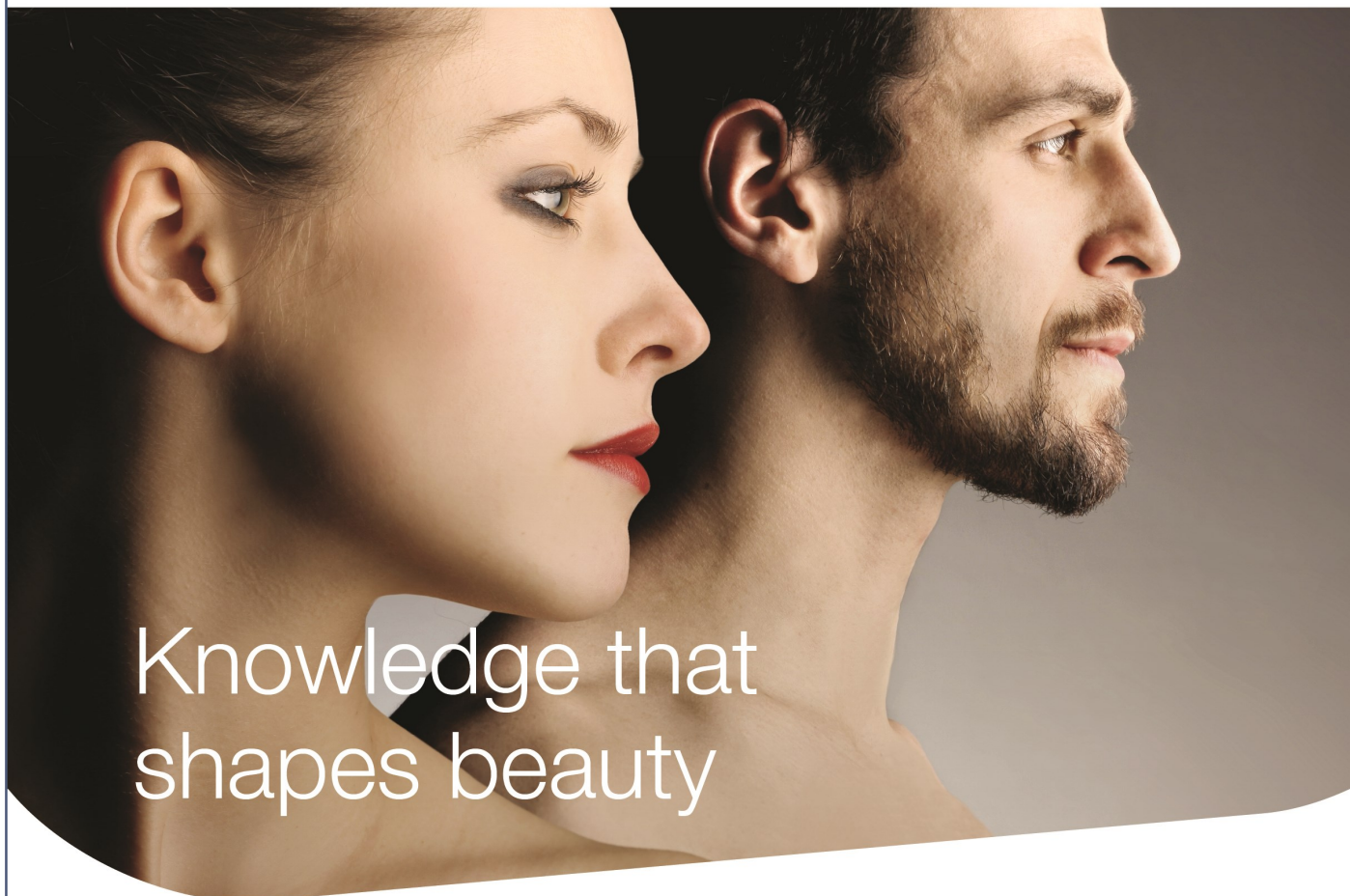
science and an adjunct professor in Cosmetic Science at Fairleigh Dickinson University. He is also the chair of the Scientific Affairs Committee for the New York Society of Cosmetic Chemists and its scientific blogger.

Sustainable Product Development

Sustainable product development wants to maximize and optimize the resources needed to develop a product within the framework of sustainability, i.e. the 3P (Profit, Planet, People). By understanding the procedures to follow during this effort and in particular the challenges and metrics of the supply chain, it is possible today to develop products that respect the sustainability chart. From ingredients developed using food processing by-products to sustainable oil sourcing to green chemistry formulation, there are many ways the cosmetic industry can innovate and lead to offer the market modern and sustainable products.



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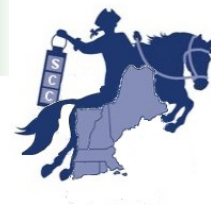
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New England Society of Cosmetic Chemists
69 Brickyard Rd Ext
Southampton, MA 01073*

Beth's Phone and email: 413.537.1070 Beth.McGowan6713@gmail.com

If you have any questions please contact Emily Nichols at (860) 821-5268 or the email address above.

Beeswax: Back to Basics (Part 2)

Belén M. Lemieux, Steven L. Puleo – Koster Keunen, Inc., USA.

A Fascinating Story

Beeswax is not only unique from a chemical perspective, but from a marketing one as well. It offers countless benefits, such as skin protection, natural origin, anti-microbial properties, and UV absorption.¹

Beeswax is globally approved, biodegradable, non-toxic², non-irritant, and non-comedogenic³. It can be certified natural and/or organic by NPA, COSMOS, USDA, Ecocert, and other certifying bodies. It is offered in different grades, such as NF (USP), and can be purchased with different certifications allowing for attractive packaging callouts, including “organic”, “kosher”, “halal”, “non-GMO”, “sustainable”, “ethically sourced”, “made in the USA”, and many more.

Honey bees are fascinating social insects. Success of the colony depends on following a firm hierarchy, proper division of labor, and the ability to change behavior based on a series of chemical and tactile interactions.⁴ Working as a team, *Apis Mellifera* bees produce beeswax and honey, but also pollinate our crops. In the United States, more than one-third of all crop production—ranging from nuts to berries to flowering vegetables—requires insect pollination.⁵ Consumers unknowingly rely on commercial beekeepers to provide pollination services to farms, and beekeepers, in a reciprocal partnership, provide optimum conditions for bees to thrive. These same consumers, swayed by the increasingly visible animal rights and vegan movements, as well as the shortcomings in animal welfare laws in the United States^{6,7}, are also putting beekeeping and beeswax harvesting under scrutiny.



Image 1. Women beekeepers of Uyowa, Tanzania. Koster Keunen, Inc.

Koster Keunen’s position on beeswax is that it is a “cruelty-free” product. Worldwide, bees are not harmed in the farming process, in fact bees must be kept in optimal conditions in order to thrive and be productive. It is not in beekeepers’ best interest to harm their bees, as bee product trade and pollination are part of their livelihood. In developing areas of the world, entire villages depend on the income from honey and beeswax trade.

Another area of controversy is the beeswax sourcing and its impact on communities. The beeswax that Koster Keunen purchases is sourced from all around the world, with an increased focus on specific locations in an effort to improve living standards. Our responsible sourcing promotes pure beeswax, economic development, and beekeeper safety. We work directly with beekeepers and their families, and our beeswax purchases provide a tangible impact on local communities (Koster, J., personal communication, December 2017).

Alternatives

Because beeswax is an animal by-product, it cannot obtain the currently popular certification of “vegan”, nor can a cosmetic product that contains it. At Koster Keunen, we understand the market and offer a wide array of alternatives for our customers who need multiple options.

There are many synthetic replacements: blends of commercially available waxes engineered to closely match the properties of natural beeswax. As added benefits, these alternatives are cost effective and carry the vague INCI nomenclature of *Synthetic Beeswax*. In formulas with small percentages of beeswax they can be a “drop-in”, but formulas with high amounts may require some rework.

We encourage formulators and product developers with natural and vegan needs to reach out to us. Finding one-to-one natural replacement for beeswax can be difficult due to the uniqueness of beeswax chemistry and the high dependency on the end product application. Koster Keunen has the technology to assist in the process. For example, in mascaras, *Rice Bran Wax* can work well as an alternate, while for candles, we might recommend *Soy Wax*. For lipsticks where brittle formulas are problematic or for low viscosity gels with a tendency to crystallize, a plasticizer such as *Kester Wax K-60P* can be blended with another natural wax in order to mimic the performance of beeswax.

Conclusions

Beeswax is a well-established, indispensable raw material in the cosmetic industry. At Koster Keunen, our goal is to protect this resource and continue to understand beeswax, its chemistry and its possibilities. Formulators and cosmetic chemists will find it to be an effective thickener, film former, plasticizer and even emulsifier. Marketers can tell compelling stories; every stage of the beeswax journey is exciting, and it all begins with a young honey bee emerging from her hexagon.



Image 2. Hollow trunk beehive in Gore, Ethiopia. Koster Keunen, Inc.



Formula 1: Rose Lipstick with SPF		
Phase	INCI	%
A	Beeswax	9.5
	Ozokerite (Ozokerite 175)	8.0
	Bis-PEG-12 Dimethicone Beeswax (Enhans SB-63)	5.0
	Theobroma Cacao (Cocoa) Butter	4.0
	Synthetic Beeswax (Kester Wax K-82P)	2.0
	Ricinus Communis (Castor) Seed Oil	13.5
	Octyldodecanol	12.0
	Octinoxate	6.0
	Butyl Acrylate/Hydroxypropyl Dimethicone Acrylate Copolymer	3.0
B	Lauryl Laurate (Kester Wax K-24), Mica, Titanium Dioxide CI 77891, Trimethylsiloxyphenyl Dimethicone, D&C Red 30 CI 73360, Iron Oxides CI 77492, Silica Dimethyl Silylate, Iron Oxides CI 77499	37.0
Procedure: Combine Phase B/Color Base ingredients and mix/mill until homogeneous, heating slightly if needed. Combine Phase A ingredients, increasing heat and mixing as needed for uniform product. Slowly add Phase B to A with mixing, continue until uniform. Pour into molds 85 °C.		

Formula 2: All Natural Cold Cream		
Phase	INCI	%
A	Beeswax	10.0
	Lauryl Laurate (Kester Wax K-24)	20.0
	Behenic Acid	1.5
	Prunus Amygdalus (Sweet Almond) Oil	16.3
	Polyglyceryl-3 Stearate	1.0
	Tocopheryl Acetate	0.5
B	Water	44.8
	Glycerol	5.0
	Xanthan Gum	0.3
	Phenoxyethanol, Benzoic Acid, Dehydroacetic Acid	0.5
	Potassium Hydroxide	0.1
Procedure: Combine Phase A ingredients and heat at 80 °C until melted. Premix Glycerin and Keltrol, add to water and mix until uniform. Add remaining Phase A components and heat to 80 – 85 °C. add Phase B to Phase A and mix at high speed until emulsion is smooth, then cool at medium speed to 50 °C or less.		

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Education Seminar Recap

Karl Popp

Assumption College in Worcester, MA was the host for this year's Education Seminar. Cosmetic Preservation: Today's Challenges for Tomorrow's Needs, held on October 25, provided a program which enlightened novice and experienced formulators, as well as industry associated participants.

Steve Schnittger, Estee Lauder, shared his view of the state of the cosmetic industry as it pertains to product preservation. As non-industry influences challenge the use of many of the effective preservatives in use today, the options available to protect the microbial integrity are becoming fewer in number. Just passing the USP preservation test at time of development may not be enough to confirm adequate preservation throughout the product's shelf life or more importantly in the hands of the consumer. The art of preservation now includes the use of multifunctional ingredients in formulations in addition to an understanding of the effects of packaging and storage conditions. This has led to a whole new set of challenges for the cosmetic chemist ensuring products are safe and efficacious.

Howard Brown, Lincoln Fine Ingredients, reviewed the benefits of preservative blends. Preservative selection must now respond not only to an increasingly more complex set of acceptance criteria, such as regulatory and efficacy, but also to the scrutiny of the social network environment in which we now live. While many preservative blends are available in the market place today, selection is not only based on the preservative working, but also on marketing's demands in addition to the public's perception of what is acceptable and what is not. Data were presented to describe the utility of preservative blends in several product classes.

Rocco Burgo, Inolex Corporation, shared the reality that the internet has become the "go to" place for consumers to glean information on the products and their ingredients that they buy. This information, whether real or perceived, sways the consumer's selection of the product to buy, or more importantly, their understanding of which ingredients are safe. Science frequently plays second fiddle to the perception created in the public's mind. With the growth in popularity of "natural" cosmetics has come the increased need for preservatives that are plant based and not derived from petrochemical sources. At this point, the availability of reliable natural preservatives is limited. However, several promising 100% plant based substances have been identified and the industry has embraced this new challenge.

Dr. Patrick Crowley, Callum Consultancy, shared his years of experience in pharmaceutical research and the impact of preservation on safety, performance, and package interactions. Multi use package presentations increase the likelihood of inadvertent contamination during use leading to microbial proliferation. Preservation inclusion in pharmaceutical products is necessary and tightly regulated. It is extremely important to confirm the efficacy of the preservative system throughout the product's shelf life. It was also important to note that the preservatives available for use in pharmaceutical products are much more limited than in cosmetics. While frequently the concentration of the preservative is monitored analytically, the proof of suitable preservation remains with successful microbial challenge.

Tia Alkazaz, Active Micro Technologies, presented data on the efficacy of a multifunctional peptide. Originally created as moisturizers, novel peptide compositions were surprisingly found to possess antimicrobial activity and upon evaluation found to possess activity supportive of product preservation. The peptides presented were produced through controlled fermentation of probiotic lactic acid bacteria. Additional studies are underway to further elucidate the utility and properties of this class of peptides. The data supported the concept that peptide ingredients can have multi-functional properties, offer a means to enhance product preservation, and contribute as a natural alternative to traditional preservative systems.



Education Seminar Recap (cont.)

The Chapter gratefully acknowledges the support of this event by the following organizations: Active Micro Technologies, Cal-lum Consultancy, LLC, Estee Lauder Companies, Inolex Corporation, Koster Keunen, Lincoln Fine Ingredients, Lubrizol, Schulke, Symrise, and Thor Specialty Chemicals.



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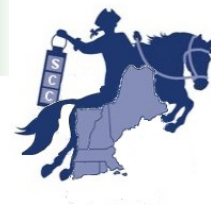
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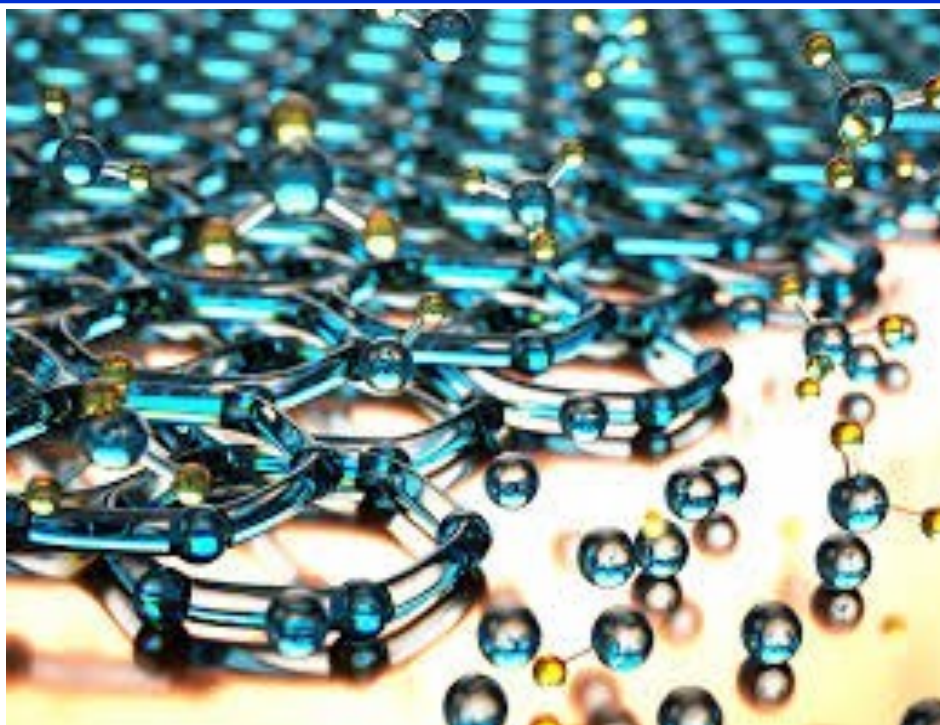


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Our Annual Scientific Meeting is where the world connects for the best cosmetic science education!

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- **Plus:** pre-conference full-day CEP courses on Monday, December 10th

 SCC ATTENDEE REGISTRATION				
	Early Bird until May 31	June 1 until October 31	November 1 until November 30	December 1 until ONSITE
FULL Registration (SCC Members)	\$650	\$675	\$750	\$875
FULL Registration (Non-Members)	\$790	\$815	\$890	\$1015
FULL Registration (SCC Student Members)	\$250	\$250	\$250	\$250
Split Registration (SCC Members ONLY)	\$800	\$850	\$900	No splits available
One Day Registration (SCC Members)	\$550	\$575	\$650	\$775
One Day Registration (Non-Members)	\$690	\$715	\$790	\$915
Cocktail Ticket (Members & Non-Members)	\$150	\$150	\$150	\$300
Technology Showcase (SCC Members)	Free	Free	\$25	\$50
Technology Showcase (Non-Members)	\$25	\$25	\$50	\$100



**NEW ENGLAND SCC MEETINGS
AND EVENTS**

15 Nov 18 – NE SCC Monthly Meeting & Installation of 2019 Officers

Speaker: Giorgio Dell'Acqua

Topic: Sustainable Product Development

MARK YOUR CALENDAR FOR 2019!

17 Jan 19 – January Chapter Meeting

21 March 19 – March Chapter Meeting

19 Sept 19 – September Chapter Meeting

17 Oct 19 – Educational Seminar

21 Nov 19 – November Chapter Meeting & Installation of 2020 Officers

OTHER AREA 1 CHAPTER EVENTS

07 Nov 18—NYSCC Meeting– Skin Barrier

13 Nov 18— CT SCC Dinner Meeting

27 Nov 18—QC SCC Holiday Meeting

11-12 Dec. 18—SCC 72nd Annual Meeting &
Technology Showcase



ABOUT OUR ORGANIZATION

Dedicated to the advancement of cosmetic science, the Society strives to increase and disseminate scientific information through meetings and publications. By promoting research in cosmetic science and industry, and by setting high ethical, professional and educational standards, we reach our goal of improving the qualifications of cosmetic scientists. Our mission is to further the interests and recognition of cosmetic scientists while maintaining the confidence of the public in the cosmetic and toiletries industry.

www.newenglandsc.org

WANT TO SPONSOR THIS NEWSLETTER? CONTACT
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FOR RATES AND OTHER INFORMATION



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