

A Subdivision of the Rubber Division of the American Chemical Society

SPRING 2016

www.ohiorubbergroup.org

PO Box 341, Bath, OH 44210

2016 Events OHIO RUBBER GROUP www.ohiorubbergroup.org

Be sure to renew your membership for 2016

Spring Technical Meeting Tuesday, April 5, 2016 Twinsburg Hilton Inn

Golf Outing Tuesday, June 21, 2016 Yankee Run, Warren

Golf Outing Monday, August 29, 2016 Portage CC, Akron

Fall Technical Meeting Tuesday, September 27, 2016 Twinsburg Hilton Inn

RUBBER DIVISION

189th Technical Meeting and Educational Symposium April 18-21, 2016 San Antonio, TX

190th Technical Meeting International Elastomer Conference October 10-13, 2016 Pittsburgh, PA

CLEVELAND CHEMICAL ASSOCIATION www.clevelandchemical association.com

Monthly Luncheon Meetings



A message from Jim Lipinski, 2016 Chair

Looks like spring has arrived and although this past winter was relatively mild compared to the previous two years it is still a welcome sight!



A good, solid technical program resulted in a very large turnout for the January Technical Meeting. Thank you to the presenters and to all who attended and continue to support the Ohio Rubber Group. A special thank you to our own Leo Goss, 2016 Rubber Division Chair, for addressing the group about current happenings in the Rubber Division.

At the January meeting 101 remained after the presentations to enjoy dinner. There were 75 preregistered diners and 26 walk –in. While the hotel was able to work magic and serve everyone a delicious dinner, in the future the limit of dinners available on a walk in (not reserved) basis will be 12.

Golf outing season is just around the corner. Please mark your calendar for Tuesday, June 21, 2016, for our annual golf outing at Yankee Run in Warren. Last year's event was very successful (sold out!) and we are looking forward to another great outing in 2016. Dinner will again be catered by Terrible Tom's Barbeque. Proceeds go to the ORG scholarship fund. *Details and a sign-up sheet are available in this newsletter and on our website*. As always proceeds will be going to our scholarship fund. Don't miss out – it is not too soon to start arranging your foursomes.

Congratulations to our most recent scholarship recipient, Seth Glasgow, as he continues his education at the University of Akron.

Hope to see you at the April 5th meeting.





Photos of ORG events will be posted on our website:

ww.ohiorubbergroup.org

2016 Directors

Chair - Jim Lipinski Harwick Standard Dist. 330-798-6808 lipinskij@harwickstandard.com

Vice-Chair – **Tim Samples** Polymerics, Inc. 330-609-2724 <u>tim@polymerics.com</u>

Treasurer - **Peter Glasser** HF Mixing Group 330-324-3842 <u>pglasser@farrel.com</u>

Secretary – Mike McDonnell Alttran, Inc. 330-650-2223 mmcdonnell@alttran.com

Councilor – Ernie Puskas Littlern Corp. 330-848-8847 epuskas@littlern.com

Alt. Councilor– **Denise Kotz** DuPont Performance Elastomers 330-929-6926 <u>denise.kotz@dupont.com</u>

Area Director –Andrew L. Tisler Omnova Solutions, Inc. 440-318-488 andrew.tisler@omnova.com

Alt. Area Director – **Doug Ruch** R.E. Carroll, Inc. 609-658-2417 <u>dougr@recarroll.com</u>

2016 Committee Chairs

Program – **Tina Darnell** UTC Aerospace Sys. 330-374-2657 <u>Tina.darnell@utas.utc.com</u>

Membership – Chris Boyher Hallstar 314-308-9323 cboyher@hallstar.com

Scholarship/Education – Joel Neilsen Sid Richardson Carbon & Energy Co. 330-666-2777 jgneilsen@sidrich.com

June Golf Outing – Doug Ruch R.E. Carroll, Inc. 609-658-2417 dougr@recarroll.com

June Golf Outing – Jason Huff ChemRep, Inc. 513-570-1170 jason@chemrep.com

August Golf Outing – Greg Sibley and Kevin Geron Intertex 330-665-5533 greg@intertexworld.com kevin@intertexworld.com

Publicity – **Thomas McGee** 419-289-6339 <u>ncem046@yahoo.com</u>

Web Master – Denise Kotz DuPont Performance Elastomers 330-929-6926 <u>denise.kotz@dupont.com</u>

Historian/Raffle – Shelby Washko 330-273-5155 shelbywashko@frontier.com

Newsletter/Rec.Secy –**Mary Puskas** Ohio Rubber Group 330-283-0845 <u>mpuskas@littlern.com</u>

Rubber Division News

1. **Spring Meeting**: There are 77 total registered attendees for the spring meeting in San Antonio at 6 weeks out. This includes 50 registered for the technical sessions (attendees and speakers). There are also 12 registered for the 25 Year Club Luncheon and 50 for the S&T Awards Luncheon. If you have not yet registered, please do so at http://www.rubber.org/189th-technical-meeting-educational-symposium.

2. <u>2016 IEC/Fall Expo</u>: There are 132 booths today at 21,700 square feet and \$375,041 in paid revenue (compares to this time in 2014 with 128 booths at 18,700 sf and \$332,000 in paid revenue AND 2012 with 110 booths at 10,000 sf and \$170,000 in paid revenue). Based on history, we will be selling many more booths in the months ahead, e.g. we sold 62 additional booths during March-October 2014 and we sold 56 booths during March-October 2012. Our budgeted booth revenue for 2016 in Pittsburgh is \$525,000 (total actual booth revenue in 2014 was \$515,075 and in 2012 was \$309,760).

3. <u>Marketing</u>: The 2016 International Elastomer Conference first meeting notice will be going out earlier this year – within the next two weeks, to allow more time between our two main marketing promotional pieces. Registration and housing for the IEC 2016 will open in May, so the first meeting notice will serve more as a 'save the date' and direct people to <u>www.rubberiec.org</u> for more information as it becomes available. Additionally, the new <u>www.rubber.org</u> website development is coming along nicely and is on schedule for a May/June launch.

4. <u>Membership</u>: There are 43 total corporate members and 2,175 total individual members. Also, the new Membership Committee Chair is Russ Vogelsong from Lion Elastomers. We want to thank Tim Higgins (Momentive Performance Materials Inc.) for his excellent years of service as Membership Committee Chair and thank Russ for volunteering to serve as the new Chair. We also want to thank Cal Moreland (Michelin) for his excellent years of service as Program Planning Committee Chair and thank Jeffrey Linn (Momentive Performance Materials Inc.) for volunteering to serve as the new Chair.

5. <u>Education</u>: The undergraduate scholarship deadline was extended to April 1st. <u>We</u> currently have no Rubber Group nominations for the Rubber Technology Training <u>Award this year</u>, which also has a April 1st deadline. Application and information can be found at <u>http://www.rubber.org/scholarships2</u>.

Be sure to visit <u>www.rubber.org</u> (education/training center) for information about the Division's new Elastomer Training Center located at 411 Wolf Ledges Pkwy., Ste. 208, Akron, OH (same building as Rubber Division, ACS headquarter office)

Rubber Division Training Opportunities Many will be held at the NEW Elastomer Training Center

Intermediate to Advanced Compounding and Testing of Rubber April 4-6, 2016; Akron, OH

April 7, 2016 Tours; Akron, OH & Cuyahoga Falls, OH

<u>Carbon Black Training & Tour</u> - Co-sponsored by Sid Richardson Carbon April 27 & 28, 2016; Addis, LA

> Essentials of Rubber Technology May 3, 2016; Akron, OH

Silicone Rubber Chemistry and Technology May 3, 2016; Akron, OH

Compound Mixing and Consistency May 4, 2016; Akron, OH

Contact Christie Robinson, M.Ed., Training & Development Director, at <u>crobinson@rubber.org</u> Visit <u>rubber.org/upcoming-training</u> for more educational opportunities through Rubber Division, ACS. **Schedule**

4:00 – Dinner Ticket/Membership Sales

4:30 – Technical Presentations

please turn off cell phones

6:00 - Social Hour

7:00 – Dinner (Reserve by 4/2/16)

Ohio Rubber Group Spring Technical Meeting Tuesday, April 5, 2016

Hilton Garden Inn, 330-405-4488 8971 Wilcox Drive, Twinsburg, Ohio

"Surface Engineering Approach for Enhanced Filler Dispersion And Reduced Hysteresis Loss"

Prasad Raut, Graduate Student, University of Akron, 2016 ORG Scholarship Recipient

Coupling agents produce a bridge or a link between the filler and the rubber matrix. The bridge or the link can be physical or chemical in nature. This study investigates the role of novel poly(butadiene-graft-pentafluorostyrene) (PB-g-PPFS) as a physical coupling agent between carbon black and styrene butadiene rubber (SBR) leading to the reduction of hysteresis loss and enhanced filler networking in rubber compounds.

"An Overview of Non-black Fillers Used in the Rubber Industry" - Part II

Walter Lackey, Technical Services Mgr., Lintech International

This overview of non-black fillers used in rubber compounding is meant to be more than a two-part presentation on fillers. It is a reference guide that can be referred to time and again for pertinent information concerning fillers and their use in rubber compounds. Part I explores the importance of particle morphology, physical characteristics, and surface treatment benefits of various types of fillers. It compares/contrasts filler types and provides guidance on applications.

Part II (to be presented at ORG Spring Tech Mtg) is an extension of Part I. But it goes a step further providing a deeper understanding of the structure, characteristics and attributes of each type of filler. Showing SEM's of particle morphology, unique features, synergistic blending of fillers for performance and the importance of particle packing. The take-a-way for the rubber compounder will be a better understanding of identifying a filler and/or filler package to meet/exceed compounded performance.

""Manufacturing Polypropylene (PP)/Waste EPDM Thermoplastic Elastomers Using Ultrasonically Aided Extrusion""

Jing Zhong, Graduate Student, University of Akron, 2016 ORG Scholarship Recipient

Compounding of waste EPDM from postindustrial scrap with polypropylene (PP) is a possible way to manufacture thermoplastic elastomers to solve a significant environmental problem. Accordingly, the present study considers the one step (OS), two step (TS) and dynamic revulcanization (DR) compounding methods for manufacturing of PP/EPDM blends at various ratios with aid of ultrasonic twin screw extruder (TSE) at ultrasonic amplitudes.

	Advanced Reservation - 8	35.00 each ****With	nout prior reservation - \$40.00 each	<u>(only 12 available)</u>	
Do you wish to donate to the student support fund? \$					
Reserve		1) Pay at Door OR	2) Payment Enclosed \$	(Cash, Check, Credit	
Credit C	ard #		Exp. Date	Code	
Name			Company		

E-mail reservations to <u>mpuskas@littlern.com</u> OR mail to Ohio Rubber Group, PO Box 341, Bath, OH 44210

Winter Technical Meeting 1/26/16 (All photos thanks to Shelby Washko)

The ORG had a VERY successful winter meeting at the Hilton Garden Inn in Twinsburg, Ohio (computer problems notwithstanding). Program Chair Tina Darnell arranged a very popular technical program. The presentations were SRO and 101 attended dinner.

Thanks to all who attended for supporting the Ohio Rubber Group and a special thank you to the three presenters.



"Advances in Rubber Mixes Using High Performance Fillers"

Anthony Mariniello, Product Specialist & Northeast Territory, Technical Sales Manager, ChemSpec Ltd.

















Joel Neilsen (L), 2016 Scholarship Chair, presented to Seth Glasgow the 2016 Paul Glasgow Memorial Scholarship







"An Overview of Non-black Fillers Used in the Rubber Industry" - Part I

Walter Lackey, Technical Services Mgr., Lintech International



"EPDM Replacing NR" Pete Spanos, Technical Manager, Lanxess Corporation, USA



















Polymer Valley Chemicals Stemaco USA, Inc. Littlern Corp. **Channel Prime Alliance** Hallstar ChemRep, Inc. **Centrotrade Minerals & Metals HF Mixing Group** Vanderbilt Chemicals, LLC R. D. Abbott Co., Inc. Akrochem Corp. Struktol Company of America Harwick Standard Dist. Corp. Sid Richardson Carbon & Energy Sovereign Chemical Co. ChemSpec, Ltd. Western Reserve Chemical Corp. Dyna-Mix Zeon Chemicals, LP







Please consider a contribution to the 2016 Technical Meeting Social Hours.

As a Hospitality Sponsor your company will be recognized in the newsletters, on the website and at the meetings (Spring 2016, Fall 2016 and Winter 2017).

The social hour is an important adjunct to the technical meetings and is possible only through the generosity of our Hospitality Sponsors.

A yearly donation of \$250 is suggested; any amount is appreciated.

Please send to: Ohio Rubber Group, PO Box 341, Bath, Ohio 44210



Register NOW! ORG Summer Golf Outing - Tuesday, June 21, 2016

This year we will be playing a 4 golfer scramble

Calling all golfers! It's time to register for the annual Ohio Rubber Group June Golf Outing. This outing fills up quickly so please complete the following registration form and mail it promptly. The deadline is June 2nd, however, if there is remaining space after that date you can still join the fun. This year we will again play the beautiful Yankee Run

golf course so get your registrations in quickly as there are a limited number of slots available and <u>this outing has sold out for the last 4 years.</u>

Date: Tuesday, June 21, 2016 Tee Time: Shotgun start – 9:30 am

- Dinner: Yankee Run Pavilion 3:30 pm (Catered by "Terrible Tom's Barbeque")
- Golf course: Yankee Run Golf Course 7610 Warren-Sharon Road Brookfield, Ohio 44403 <u>www.yankeerun.com</u> 330-448-8096



Cost: \$120.00 per person

Thank you

Includes golf w/cart, lunch, dinner, beverages, door prize, raffle ticket, skill awards and prizes.

All golfers are encouraged to become members of the 2016 Ohio Rubber Group.

For those needing accommodations in Warren, rooms are available at the Avalon Inn and Resort. Make reservations directly with the Avalon Inn and resort at 800-828-2566.

Thanks for your support - we look forward to seeing you on the 21st! - Doug Ruch, ORG Golf Chair, 330-510-0107

Calling All Corporate Sponsors! - 2016 Golf Hole Sponsorship

As you may know, the primary purpose of the ORG Summer Golf Outing is to provide funding for our annual scholarships. The success of this event relies primarily on the generous support of our corporate members. Once again, we are asking that you consider sponsoring a golf hole for the outing.

For each hole sponsored, you will receive your company name on a sign placed at one hole. In addition, your company will be recognized the day of the event, and in the upcoming ORG newsletter.

<u>The cost per hole is \$150.00 or 2 for \$225.00</u>. To participate, simply complete the bottom portion of this letter and return to the address provided w/payment <u>no later than June 7th</u>. This will be the last day to sign up for a sponsorship to allow time for printing the sponsor signs. Please sign up early!

	Yes! I would like to sponsor hole(s) 1 hole= \$150, 2 holes = \$225
	Company Name
Contact Name	e Contact email:

OHIO RUBBER GROUP SUMMER OUTING

Tuesday, June 21, 2016 - Yankee Run Golf Course, Brookfield, Ohio

Tee Time: Shotgun start – 9:30 AM Format: 4 golfer scramble

PLEASE NOTE: All golfers are encouraged to join ORG for 2016

FOURSOME CAPTAIN:

Address

Name

City, State, Zip

Company

E-mail

Phone

Other Foursome Members (include name, company, email)

	FULL NAME AND (Note: Foursome Captain see above) EMAIL ADDRESS	COMPANY
2		
3		
4		

PRICE: \$120 per person (includes golf w/cart, lunch, dinner, beverages, door prize, raffle ticket, skill awards and gifts)

Even if you don't golf, join us for dinner! DINNER ONLY: **\$40** (Catered by "Terrible Tom's Barbeque")

Tee-Time: Shotgun start - 9:30 AM

PAYMENT

Check enclosed (payable to Ohio Rubber Group) \$_____ (OR)

Credit Card Total \$_____ (circle one) Visa MasterCard AMEX Discover

Card #_____

_____ Exp. Date_____ Sec. Code:_____

DEADLINE: June 7, 2016 ****** NO REFUNDS after June 14, 2016

Return this form with payment to: Ohio Rubber Group, PO Box 341, Bath, Ohio 44210 Fax: 330-848-8947 or email: <u>mpuskas@littlern.com</u> Phone: 330-283-0845 or 330-848-8847



MEMBERSHIP RENEWAL TIME!

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It's a new year and that means it's time to renew your membership for 2016 Please use the form below OR on the website at <u>www.ohiorubbergroup.org</u>

Still only \$25 – Join today – Don't miss anything!

*NEW!!** As of 2/1/16, ORG Members renewing for 2016 can sponsor a new member at no charge.

MUST be for a NEW non-member (cannot be used by a current/past member).

The two memberships MUST be sent at the same time and payment (\$25) for the current/past member renewal must accompany the applications.

Please use a copy of the Membership Application below for the new member and check the BOGO in the payment section.

2016 OHIO RUBBER GROUP

A Subdivision of the Rubber Division of the American Chemical Society Membership Application

Date
Name Title
EMAIL ADDRESS
Company
Mailing Address
City, State, Zip
Phone # Fax #
MEMBER SURVEY (Please complete) Are you a current member of:
American Chemical Society -YESNORubber Division, ACS -YESNO
Interested in serving on a committee: YES NO Committee Preference:
2016 Membership Fee: \$ 25.00 New member BOGO Nominated By:
Contribution – Scholarship Endowment Fund: \$
Total Enclosed: \$
Payment Options: Cash, Check (US dollars/US bank), Visa, MasterCard, Discover or AMEX (include type, card #, exp. date, sec code)
Please complete application and send with payment to: Ohio Rubber Group, PO Box 341, Bath, OH 44210