



A Subdivision of the Rubber Division of the American Chemical Society

**Fall 2013**

**[www.ohiorubbergroup.org](http://www.ohiorubbergroup.org)**

**PO Box 341, Bath, OH 44210**

## 2013 Events

### **OHIO RUBBER GROUP**

[www.ohiorubbergroup.org](http://www.ohiorubbergroup.org)

#### **NEW DATE!!!!!!**

Fall Technical Meeting  
**Wednesday, October 2, 2013**  
Twinsburg Hilton Inn



### **RUBBER DIVISION**

[www.rubber.org](http://www.rubber.org)

184th Technical Meeting  
International Elastomer  
Conference  
October 7-10, 2013  
I-X Center, Cleveland, OH

### **CLEVELAND CHEMICAL ASSOCIATION**

[www.clevelandchemicalassociation.com](http://www.clevelandchemicalassociation.com)

Monthly Luncheon Meetings

## ***A Message from Jon Karas, 2013 ORG Chair***

We had two very fun and successful golf outings this year at Yankee Run and Portage Country Club. Thank you to all who participated and volunteered! Your support and help enables us to provide educational scholarships to university students and to organize outstanding technical meetings.

Congratulations to the winner of our Member Scholarship Award winner, Kelly Casanova! Kelly is a Mechanical Engineer working for Cooper Tire and is pursuing her Masters in Chemical Engineering at The University of Toledo. We are currently going through the selection process for our graduate student awards, and will be announcing winners soon.

Chris Ryan has been appointed to fill the vacant Secretary position. Please join me in congratulating Chris on his new volunteer position! As we near the end of the year, we will be holding elections. If you are interested or know someone who is interested in volunteering with our group, please contact us by the end of October.

Please note that the next technical meeting has been moved to Wednesday, October 2<sup>nd</sup>. See you there!

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## **LOOKING FOR A NEW OPPORTUNITY IN OUR GREAT INDUSTRY?**

Rubber Division, ACS believes in helping to facilitate professional opportunities for growth in our industry. That's why the Division organized a career fair that will take place Thursday, October 10<sup>th</sup> from 10 a.m. to 2 p.m. in the Concourse Exhibit Hall, Lower Level; I-X Center. Swing by and speak to representatives from several respected companies. Employers will have tabletop presentations with job openings and other opportunities.

There is no cost and everyone is welcome to attend.

## 2013 Directors

*Chair* - Jonathan Karas  
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## 2013 Committee Chairs

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*Scholarship/Education* – Joel Neilsen  
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*June Golf Outing* –  
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*August Golf Outing* –  
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## Division News

**Executive Committee:** Here is a brief update for September 27<sup>th</sup>. Just 9 more days until the expo/meeting, starting with our Chair's Reception on Sunday! The staff have been working overtime to help make this the best expo/meeting yet. Everyone is excited about getting started and I want to thank all staff (Heather, Christie, Linda, Gretchen, Beth, Lakisha, Melanie, Chuck and Gabby) for their dedicated efforts. Be sure to visit the new Theater on the show floor and the scheduled presentations. See you all there. Ed

1. **Current Meeting Numbers:** FYI, a one page schedule of events (see Attached from the Show Guide) was provided by Gretchen. She also advised that current Conference/Expo Sponsorship Revenue is \$31,300 vs \$19,570 in 2011. For Education and Membership, Christie currently has 70 registered for the Education Workshops and Heather has current membership at 1,943. Both numbers may increase on site. As of today, we have 2,881 pre-registered (number increases hourly, keeping Lakisha and Gabby busy), including 418 for the Technical Symposia. There are 53 signed up for the Advanced Materials in Healthcare Conference being held on Monday at the Hyatt Hotel in Cleveland. Our first attempt at this was the healthcare session in 2011 at which we had less than 20 total. The two biggest reasons for the increase are that this is now offered as a stand-alone Conference and due to the excellent marketing done by Gretchen. Additionally, Linda did a superb job in obtaining abstracts from the speakers to help promote the conference. As another FYI, Librarian Chuck Brady is working with Edine Heinig, who volunteered to help out because the Best Paper Committee Chair is unable to attend this meeting. Thanks Edine!

2. **Current Expo Booths:** Beth and Melanie continue to sell booths (two new Exhibitors this week were AMWAX from Mexico and Reliable Tire Recycling from Winnipeg Canada). As of now, we have 231 booths at 54,900 square feet. Revenue collected is \$1,201,235, which exceeds the 2013 budgeted booth revenue of \$1,176,105.

3. **IX Center Services:** FYI, see the second attached document which provides information on services at the IX Center, e.g. restaurants, parking (free for Executive Committee/see separate email sent by Beth), business center, etc. Thanks to Melanie and Gretchen for putting this together.

4. **ACS Rubber Division (Akron) Student Chapter:** The following excerpt is from a recent email from the University of Akron which provides the official approval of the new Student Chapter as a recognized student organization at the University of Akron. Congratulations on all the hard work done by Andrea Rodriguez, Dr. Judit Puskas and Linda McClure to make this happen. Remember that we will present a plaque to the chapter at our Business & Awards Meeting in Cleveland.

From: Jorgensen, Kalyn Sent: Thursday, September 26, 2013 1:40 PM  
**On behalf of the Department of Student Life and Student Organization Resource Center (SOuRCe), we would like to congratulate you on ACS Rubber Division Student Chapter becoming a recognized student organization here at The University of Akron. Undergraduate Student Government (USG) and Graduate Student Government (GSG) recently approved the recognition of your blended organization and the Associate Vice President and Dean of Students has given official approval of your group as a registered student organization at the University.**  
Kalyn Jorgensen, The University of Akron, Department of Student Life

**Edward L. Miller, PE**  
Executive Director  
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### Schedule

4:00 – Registration

4:30 – Technical Presentations

\*\*\*please turn off cell phones\*\*\*

6:00 – Social Hour

7:00 – Dinner (Reserve by 10/1/13)

# Fall Technical Meeting Wednesday, October 2, 2013

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

## Technical Presentations

\*\*\*\*\*Please turn off cell phones during the presentations\*\*\*\*\*

### "Mechanisms of Zinc Co-Agent/Peroxide Cure Systems in EPDM"

*Don Burlett, Research Scientist, Gates Corporation*

*Zinc co-agents are used in peroxide-cured rubber compounds to provide excellent tear resistance, abrasion resistance and high temperature properties. The mechanism by which the zinc co-agents work within a rubber matrix is not entirely clear, especially the mechanism for establishing the reinforcing and property improving domains of the zinc co-agents. There has been some speculation in the literature, supported by some analytical work, and a mechanism proposed. However, no physical evidence has been available. A series of experiments were conducted using both commercially available zinc co-agents and a series of experimental materials provided by Cray Valley HSC. Extensive characterization of both the zinc co-agents and the compounds generate from mixing these series were conducted. The characterizations have included: modulated differential scanning calorimetry (MDSC), thermogravimetric analysis (TGA), scanning electron microscopy (SEM) and atomic force microscopy (AFM). These results were combined with an extensive review of the literature to examine the mechanistic aspects of the chemistry of these zinc co-agents. The results of these studies support the "dissolution-diffusion-polymerization" mechanism for distribution of the co-agents in the rubber matrix and formation of the resulting network.*

### "An Introduction to Fortimix - an Inorganic Process Aid and Multifunctional Additive"

*Bill Black, Technical Sales and Service, The SEFA Group, Inc.*

*My topic is "an introduction to Fortimix – an inorganic process aid and multifunctional additive". Fortimix is a multi-functional additive that The SEFA Group introduced to the rubber industry last year. It has the characteristics of an inorganic process aid but can also be used to increase extrusion rates, aid in molding operations and calendering operations, and provide value extension to rubber formulations.*

*I took a winding path to my current position! I graduated in Mechanical Engineering from Auburn University in 1989 and immediately went to United States Navy flight school. I was a Naval Aviator for 13 years, a United Air Lines copilot for almost four years, a project engineer for Conbraco Industries, and am now working in Technical Sales and Market Development for The SEFA Group.*

### "What Do You Wanna Be When You Grow Up?"

*Jud Logan, Head Coach Ashland University, 4X USA Olympian*

*Masters (50+) World Record Holder in Hammer Throw - Broke American record 13x in Hammer Throw - Best of 268'8" - Gold Medalist 1987 Pan Am Games - Silver Medalist 1991 Pan Am Games (Cuba) –Bronze Medalist. 1985 World Cup (Australia) - Olympics. 1984. 1988. 1992. 2000*

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After Dinner Raffle - Raffle tickets will be available for purchase at the meeting

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### 2013 Fall Technical Meeting - DINNER RESERVATIONS - Reserve by October 2, 2013

Advanced Reservation - \$35.00 each

Without prior reservation - \$40.00 each

E-mail reservations to [mpuskas@littlern.com](mailto:mpuskas@littlern.com) OR mail to Ohio Rubber Group, PO Box 341, Bath, OH 44210





## Thank you 2013 ORG Hospitality Sponsors

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*Akron Rubber Development Laboratory*

Thanks to all who attended the spring meeting and for supporting the Ohio Rubber Group.

*A special thank you to the presenters: Peter Dluzneski, Arkema, Inc.; Michael Jacobsson, Sid Richardson Carbon & Energy Co.; Kushal Bahl and Sadhan C. Jana, Dept. of Polymer Engineering, The University of Akron (Kushal Bahl is a 2013 ORG Scholarship recipient)*



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## Yankee Run Golf Outing – June 18, 2013



The June 2013 Golf outing was a great success and good time for all. The outing was sold out and the 127 golfers enjoyed a beautiful day. Terrible Tom's Barbeque cooked all day and served us a terrific dinner.

A special "Thank You" to Americas International for supplying the golf balls that were given out at the scholarship holes. The monies raised during this activity go directly to the ORG scholarship fund to support future rubber professionals. This donation goes a long way to reduce the expenses of the outing. \

In closing I would like to thank everyone that volunteered their time to make this outing a great experience for all. Without your time and commitment this event would not be possible. I would also like to thank the sponsors and all of you that participated. I hope to see all of you next year!

### Many Thanks to the 2013 Golf Sponsors

