



A Subdivision of the Rubber Division of the American Chemical Society

Fall 2014

www.ohiorubbergroup.org

PO Box 341, Bath, OH 44210

2014 Events

OHIO RUBBER GROUP

www.ohiorubbergroup.org

Fall Technical Meeting
Tuesday, September 30, 2014
Twinsburg Hilton Inn
DETAILS PG. 3



RUBBER DIVISION

www.rubber.org

186th Technical Meeting
International Elastomer Conference
October 14-16, 2014
Nashville, TN

CLEVELAND CHEMICAL ASSOCIATION

www.clevelandchemicalassociation.com

Monthly Luncheon Meetings

SOCIETY OF PLASTICS ENGINEERS

[Thermoplastic Elastomers 11th
Topical Conference™](#)

September 16 – 18, 2014
Hilton Akron-Fairlawn

A Message from Paulo Meneghetti, Chair, 2014



The Ohio Rubber Group continues to have a great year. The January and April Technical meetings had great speakers and very positive turnout. ORG June Golf Outing was held on June 17th. We had over 120 players participating in a new 4 man scramble which was very successful. In 2015, we will continue this format!

ORG had 25 hole sponsors with many sponsoring 2 holes (every hole had two sponsors). Our appreciation goes out to Yankee Run Golf Course and staff, catering by Terrible Tom's BBQ (Tom Nunley) and our gracious volunteers working the scholarship hole, dinner set up, door prize tables, 50-50 raffle, photography and event registration! Thank you again for another successful event supporting the Ohio Rubber Group! Special thanks to Paul Glasgow and Tom Rickey for organizing the event!

The Fall Technical meeting on Tuesday, September 30, will have three very exciting speakers (*details can be found in this newsletter*). Plan to attend and stay after the technical session for social hour, dinner, and after-dinner raffle.

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.

It has been an honor serving as the 2014 Chair. I would like to extend my sincere thanks and great appreciation to all board members, committee chairs, volunteers, sponsors and advertisers who continue to give their time, expertise and money to make this a successful group! Thanks also to all the members for your support!



LOOKING FOR A NEW OPPORTUNITY IN A 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 16th from 10 a.m. to 2 p.m. in Nashville Convention Center, Grand Ballroom – Lobby Level.***

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.

2014 Directors

Chair - Paulo Meneghetti
Momentive Performance Materials
440-953-7837
paulo.meneghetti@momentive.com

Vice-Chair – Sean Djuricic
ARDL 330-794-6600
seand@ardl.com

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Program – Paulo Meneghetti
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Division News

Executive Committee: Here is a brief update for September 17th. We are getting closer to a great “Even Year” International Elastomer Conference! Ed

1. **2014 IEC Rubber Expo:** Here are comparisons for the 2014 International Elastomer Conference’s Rubber Expo to date. It is definitely an exciting time for the rubber industry and Rubber Division.

2014 (as of September 16th): 199 booths at 28,500 square feet and \$506,275 paid revenue (vs \$350,000 Budgeted Revenue).

2012 (final numbers for IEC): 159 booths at 20,900 square feet and \$309,760 paid revenue.

2010 (final numbers for IEC): 138 booths at 16,300 square feet and \$219,000 paid revenue.

2. **2014 IEC Technical/Student Programs:** We currently have 88 technical papers for the 2014 International Elastomer conference. A final reminder was sent to all speakers regarding the deadline date and the new speaker policy. The student program is strong with 13 oral presentations and 9 student posters. Dr. Ray Gehani from the University of Akron is the student keynote speaker. A speaker from the American Chemical Society will be talking to the students during the student luncheon on Wednesday. To date, we have 14 companies signed up for the Career Fair on Thursday. We are expecting one or two more who haven’t confirmed yet. If your company is interested in participating, please contact Linda McClure at lmccclure@rubber.org.

3. **2014 IEC Education:** We currently have 112 people registered for the six education courses at the 2014 IEC. These include the following courses: Introduction to Rubber Technology for Non-Technologists (Oct 13 at 8:30 a.m. - 4:30 p.m.), Internal Mixers and Mixing Parameters (Oct 13 at 9:00 a.m. - 4:00 p.m.), Colorants for Use in Rubber (Oct 14 at 8:00 - 11:00 a.m.), Rubber as an Engineering Material (Oct 14 at 8:30 a.m. - 4:30 p.m.), Introduction to Performance Minerals and Mineral Fillers in Rubber Compounding (Oct 14 at 1:00 - 5:00 p.m.) and Cure Chemistry for Rubber (Oct 15 at 8:30 a.m. - 3:30 p.m.).

4. **Membership:** Current membership includes 2,155 members with 34 Corporate members. New this year are MEMBER PINS which are being distributed at Booth #406. Come by to get yours!

5. **2014 IEC Expo Theater:** The following events are scheduled for the Show Floor Theater. These are booth sign ups, half hour presentations, meetings and prize drawings during expo hours. There is no additional cost to attend.

Tuesday, October 14th

11:00 a.m. – Noon AND 4:15 – 4:45 p.m. 2015 & 2016 EXPO BOOTH SIGN UPS.

1:00 p.m. – 1:30 p.m. Alpha Technologies Presentation on NEW ADVANCED Instrument Introduction by VP of Engineering, Patrick Kosuth.

2:00 p.m. – 2:30 p.m. Preferred Compounding Presentation on Achievements in Open Compounding by VP of Sales and Business Development, Joe Hudson.

3:30 p.m. - 4:00 p.m. Lord Corporation Presentation on Lord Corporation Investments.

4:45 p.m. RUBBER DIVISION, ACS RAFFLE DRAWINGS & MEMBERSHIP DRAWINGS.

*drop your daily raffle ticket off at the Rubber Division, ACS booth; drawings will take place in the expo theater; must be present to win.

Wednesday, October 15th

9:00 a.m. – 9:30 a.m. Exhibitor Meeting: Calling all exhibitors...join us at this meeting to learn from GES how you can maximize your exhibiting experience and minimize costs.

11:30 a.m. – Noon AND 4:15 – 4:45 p.m. 2015 & 2016 EXPO BOOTH SIGN UPS.

2:00 p.m. – 2:30 p.m. Hexpol Presentation on The Value and Benefit of Field Technical Service.

3:30 p.m. – 4:00 p.m. TA Instruments Presentation on Accurate Discrimination of Polymer Properties by Rheological Measurements.

4:45 p.m. RUBBER DIVISION, ACS RAFFLE DRAWINGS & MEMBERSHIP DRAWINGS.

*drop your daily raffle ticket off at the Rubber Division, ACS booth; drawings will take place in the expo theater; must be present to win.

Thursday, October 16th

11:00 a.m. – Noon BUSINESS & AWARDS MEETING, includes general business of the Division plus the announcement of award winners for Student Colloquium, Service and more.

1:00 – 1:45 p.m. 2015 & 2016 EXPO BOOTH SIGN UPS.

1:45 p.m. RUBBER DIVISION, ACS RAFFLE DRAWINGS & MEMBERSHIP DRAWINGS (including a drawing for a complimentary 10’ x 20’ 2016 exhibit space).

*drop your daily raffle ticket off at the Rubber Division, ACS booth; drawings will take place in the expo theater; must be present to win.

Edward L. Miller, PE, Executive Director
Rubber Division, ACS
emiller@rubber.org

Schedule

4:00 – Registration

4:30 – Technical Presentations

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

6:00 – Social Hour

7:00 – Dinner (Reserve by 9/29/14)

Fall Technical Meeting Tuesday, September 30, 2014

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

Technical Presentations

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

"Aqueous Dispersions of Functionalized Low Molecular Weight Polymers for Rubber Textile Adhesion"

William R. Dougherty, Ph.D., Senior Manager Applications R&D, Total Cray Valley

Abstract: The use of aqueous dispersions of functionalized low molecular weight polymers for rubber to textile adhesion applications is introduced. Functionalized low molecular weight polymers have previously been used to formulate rubber compounds that exhibit improved adhesion performance. Aqueous dispersions of the polymers can allow for a wider range of application including waterborne formulations.

Aqueous dispersions of functionalized low molecular weight polymers show good stability, low viscosity, and small particle size. The hydrophobic and hydrophilic components of the dispersions allow for interaction between polar and non-polar substrates. Compatibility with other polymer latexes is demonstrated. Formulating with standard latexes can improve adhesion, water-resistance and mechanical properties of the overall blend. A modified T-peel adhesion method shows that formulations containing the dispersions of functionalized polymers dramatically improve adhesion between model substrates and cured rubber. The aqueous dispersions of functionalized low molecular weight polymers provide a less complex and more environmentally acceptable formulating alternative

"Investigating Properties of Polymer Materials Using Thermal Analysis with Optical Observation"

Thomas Ferrier, Sales Engineer, RT Instruments, Inc.

Abstract: Traditional thermal analysis constitutes one of the most commonly-used groups of techniques for studying polymeric materials. The adage "a picture is worth a thousand words" is highly relevant to Hitachi's new technology that allows us to peer into the process of thermal analysis. Several studies will be presented, demonstrating routine analysis enhanced by sample observation, as well as some interesting anomalies that could only be identified using sample observation. Additionally, some preliminary efforts to correlate DMA to rolling resistance data will be shared.

"Chlorinated Polyethylene (CPE) Overview: Compounds, Application, and Development"

Vijay Kotian, Director of Technology, Alternative Rubbers & Plastics, Inc.

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

2014 Fall Technical Meeting - DINNER RESERVATIONS - Reserve by September 29, 2014

Advanced Reservation - \$35.00 each

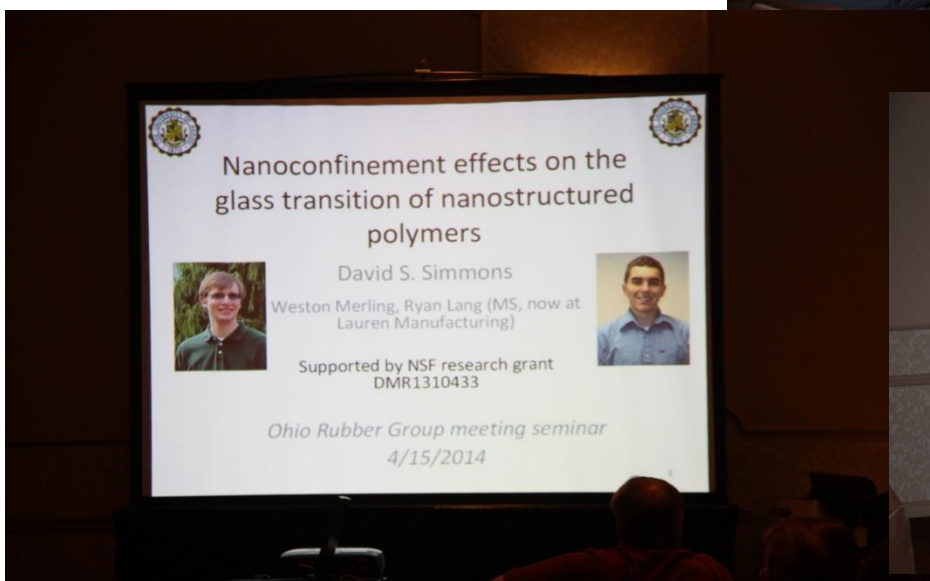
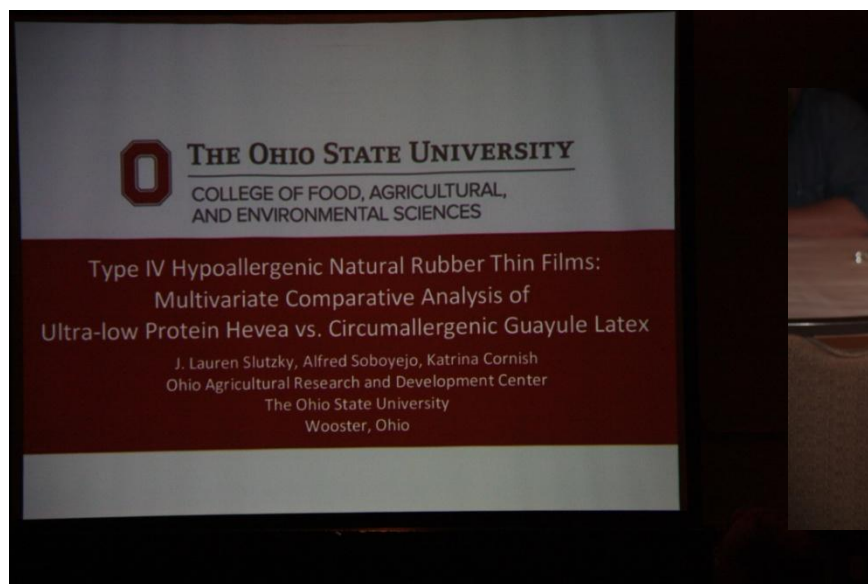
Without prior reservation - \$40.00 each

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

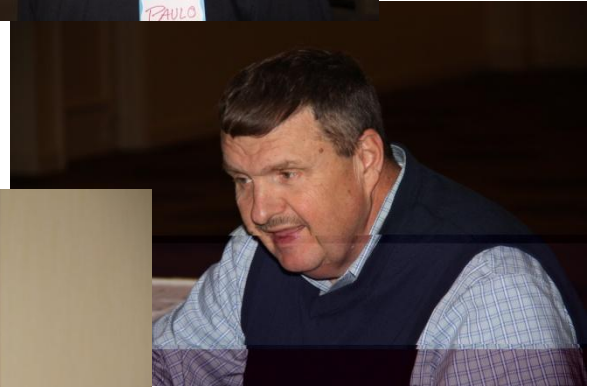
Spring Technical Meeting, April 15, 2014 (Shelby, thanks for the photos)

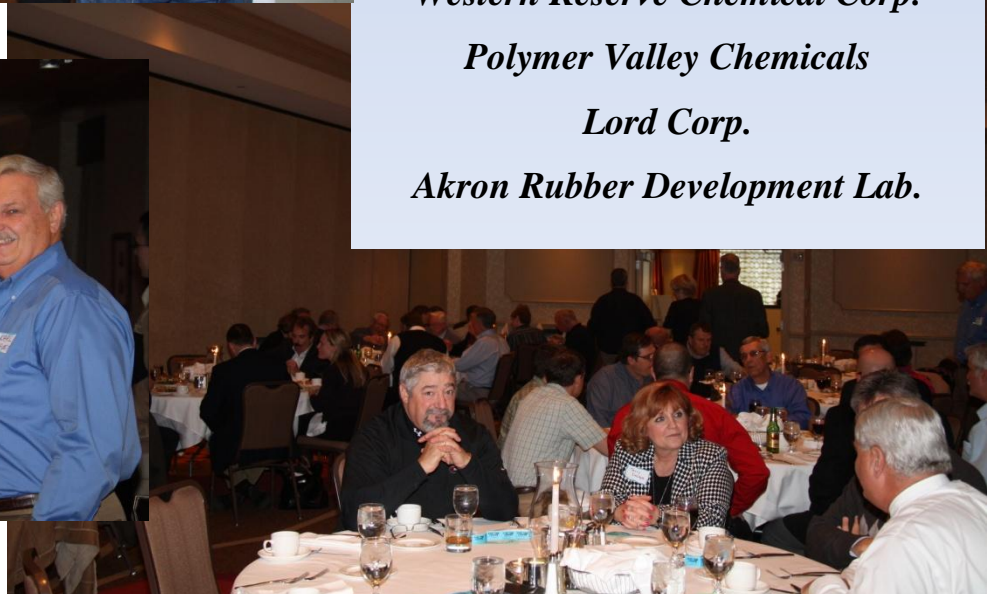
Thanks to all who attended the spring meeting and for your support of the Ohio Rubber Group.

A special thank you to the presenters: Robert McNabb, Jr., HF Mixing Group; Dr. David Simmons, University of Akron, Polymer Engineering Department; J. Lauren Slutzky, Doctoral Student, Food, Agricultural & Biological Engineering. Your participation is greatly appreciated.









2014 Hospitality Sponsors

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Yankee Run Golf Outing – June 25, 2014



The June 2014 Golf outing was a great success and good time for all. The outing was **AGAIN** sold out and the 122 golfers enjoyed a beautiful day. Terrible Tom's Barbeque cooked all day and served us a terrific dinner.

A special "Thank You" to Reclaim, Inc. 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 2014 Golf Sponsors

*Akrochem Corporation
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Golf photos courtesy of Shelby Washko and Ramona Ayers



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