VISIT THE ALREADY REGISTERED page at rubberiec.org to manage your schedule, view the exhibitor list and expo floor plan, connect with other attendees and more.

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KEEP UP ON ALL RUBBER DIVISION, ACS NEWS AND HAPPENINGS!

THANK YOU TO OUR SPONSORS:

IEC GUIDE
OCTOBER 10-13, 2022
KNOXVILLE CONVENTION CENTER
KNOXVILLE, TN USA
The ultimate extender oil for rubber goods manufacturing.

Sunpar™ 2280 paraffinic oil is highly suited for the compounding of EPDM, thermoset and thermoplastic rubbers, providing unmatched consistency and performance. It has excellent compatibility as well as:

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- Low odor
- High oxidation resistance
- Low emissions during mixing and curing
- Higher yields and oil loading
- Long service life

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HollyFrontierSpecialties.com
As the 2022 Chair of Rubber Division, ACS, let me be the first to welcome you to Knoxville, Tennessee! We certainly have a lot going on this week at the International Elastomer Conference here in Knoxville. A great deal of forethought and tender loving care have gone into the planning of this week’s activities. Let me share some of the highlights with you.

Monday, we kick off with our first day of our Educational Symposium, plus our WORD (Women of Rubber Division) Workshop.

Tuesday, we begin with our Keynote Speaker, Dr. Judit Puskas, and the opening of our Expo with over 130 exhibitors. I hope you enjoy walking the expo floor. Be sure to stop by the Rubber Division, ACS booth and thank the staff for all their hard work in preparation for this event! Our Technical Meeting, with over 95 presentations, will begin in the afternoon. In addition, our Student Symposium begins Tuesday and it is also the day for the 25-Year Club Luncheon along with a “Get Involved!” session at 3 p.m. for those wanting to learn more about the workings of the Rubber Division. Our day wraps up with the Welcome Reception at 5 p.m. Everyone’s invited and I hope to see many of you there.

Wednesday begins with the 5K Run/Walk. I will be conversing with the walkers as the runners fly by! Kind thanks to H.M. Royal, Inc. for their continued hosting of this event, a tradition which started in 1994. Then we will be featuring the Chair’s Breakfast, where we will hear from Cedric Glasper, selected by Rubber News as the 2021 Industry Executive of the Year. Wednesday is also the day for our Career Fair. Please stop by and engage with the companies looking to fill positions. The day wraps up with our Young Professionals Reception, so if you’re under 40, you’re invited to join us for this first ever event.

Thursday is the final day of the IEC. We start with our Awards Breakfast, where we will announce the winners for the Student Symposium, Service Awards, Best Paper Awards and more. Some of our valued sponsors and corporate members will also be recognized and presented with awards of appreciation. Thursday is also the day of our “Experience Elastomers” program which is an educational program to raise awareness and interest in our industry among high school age students. They will be running experiments, touring the expo floor and participating in discussion sessions with volunteers who will inform them about their careers and experiences in our industry. The expo floor will be open until 1 p.m. on Thursday.

Throughout the week, and hopefully after the IEC, I hope you make time to savor the joys of Knoxville itself as well as the surrounding area. You’ll enjoy fine dining, great weather, art and the site of the 1982 World’s Fair. Perhaps see the city from the top of the Sunsphere, check out the nearby University of Tennessee or take a day trip to Great Smoky Mountains National Park or Gatlinburg, only 45 minutes away.

Whatever you choose, I hope your visit to Knoxville is both a very enjoyable and a very memorable one. On behalf of Rubber Division, ACS, I thank you for making the trip to Knoxville to be with us for IEC 2022. Have a great week!

Always my best,
James D. Eddy
Rubber Division, ACS 2022 Chair

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# SCHEDULE OF EVENTS

## Concessions – Expo Hall
- Oct. 11 & 12: 11 a.m. - 3 p.m.
- Oct. 13: 11 a.m. - 1 p.m.

## The Hub – Expo Hall
Need some space for a meeting? The Hub offers semi-private meeting space on the expo floor. Spaces can be reserved in one hour increments during Expo hours. A team member can assist you at the Hub entrance. Availability is first come, first served and there is no cost to secure these spaces.

## Headshot Station
Need a professional headshot? Stop by to see our headshot photographer Tuesday, Oct. 11 and Wednesday, Oct. 12 from 9 a.m. to 5 p.m. This service is free for all registered attendees.

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<thead>
<tr>
<th>Date</th>
<th>Start Time</th>
<th>End Time</th>
<th>Event</th>
<th>Facility</th>
<th>Location</th>
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<tr>
<td><strong>Monday</strong></td>
<td>Oct. 10</td>
<td></td>
<td><strong>Registration</strong></td>
<td>Convention Center</td>
<td>Clinch Concourse, Third Floor</td>
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<tr>
<td></td>
<td>8 a.m.</td>
<td>6 p.m.</td>
<td><strong>Course: Rubber Explained</strong></td>
<td>Convention Center</td>
<td>301D, Third Floor</td>
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<td></td>
<td>9 a.m.</td>
<td>4 p.m.</td>
<td><strong>Course: Thermoplastic &amp; Functional Elastomers</strong></td>
<td>Convention Center</td>
<td>301E, Third Floor</td>
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<td></td>
<td>11:30 a.m.</td>
<td>1:30 p.m.</td>
<td><strong>Board of Directors Lunch Meeting</strong></td>
<td>Convention Center</td>
<td>Rotunda, Third Floor</td>
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<td>2 p.m.</td>
<td>5:30 p.m.</td>
<td><strong>WORD Workshop</strong></td>
<td>Convention Center</td>
<td>Ballroom BC, Third Floor</td>
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<td>5:30 p.m.</td>
<td>6:30 p.m.</td>
<td><strong>Best Paper Committee Meeting</strong></td>
<td>Convention Center</td>
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<td><strong>Tuesday</strong></td>
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<td></td>
<td><strong>Registration</strong></td>
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<td>8 a.m.</td>
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<td><strong>Southern Rubber Group Meeting</strong></td>
<td>Convention Center</td>
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<td>8:30 a.m.</td>
<td>12:30 p.m.</td>
<td><strong>Course: Essentials of Rubber Technology</strong></td>
<td>Convention Center</td>
<td>301D, Third Floor</td>
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<td></td>
<td>8:30 a.m.</td>
<td>12:30 p.m.</td>
<td><strong>Course: Dynamic Viscoelastic Properties</strong></td>
<td>Convention Center</td>
<td>301E, Third Floor</td>
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<td></td>
<td>9 a.m.</td>
<td>10 a.m.</td>
<td><strong>Opening Ceremony &amp; Keynote Address</strong></td>
<td>Convention Center</td>
<td>Ballroom BC, Third Floor</td>
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<td></td>
<td>10:30 a.m.</td>
<td>5 p.m.</td>
<td><strong>Expo</strong></td>
<td>Convention Center</td>
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<td>12 p.m.</td>
<td>1 p.m.</td>
<td><strong>25-Year Club Luncheon</strong></td>
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<td>1 p.m.</td>
<td>5 p.m.</td>
<td><strong>Course: Essentials of Silicone Rubber</strong></td>
<td>Convention Center</td>
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<td>1 p.m.</td>
<td>5 p.m.</td>
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<td>1:30 p.m.</td>
<td>3 p.m.</td>
<td><strong>Finance &amp; Budget Committee Meeting</strong></td>
<td>Convention Center</td>
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<td>1:30 p.m.</td>
<td>5:15 p.m.</td>
<td><strong>Technical Meeting</strong></td>
<td>Convention Center</td>
<td>Ballroom AEF&amp;G, Third Floor</td>
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<td></td>
<td>3 p.m.</td>
<td>4 p.m.</td>
<td><strong>Get Involved!</strong></td>
<td>Convention Center</td>
<td>Rotunda, Third Floor</td>
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<td></td>
<td>4 p.m.</td>
<td>5 p.m.</td>
<td><strong>Science &amp; Technology Awards Committee Meeting</strong></td>
<td>Convention Center</td>
<td>Rotunda, Third Floor</td>
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<td></td>
<td>5 p.m.</td>
<td>7 p.m.</td>
<td><strong>Welcome Reception</strong></td>
<td>Convention Center</td>
<td>Park Concourse &amp; Plaza Terrace, Second Floor</td>
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<td><strong>Wednesday</strong></td>
<td>Oct. 12</td>
<td></td>
<td>5K Walk/Run - Presented by H.M. Royal, Inc.</td>
<td>Hilton Hotel</td>
<td>Meet in Lobby</td>
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<td></td>
<td>6:30 a.m.</td>
<td>5 p.m.</td>
<td><strong>Registration</strong></td>
<td>Convention Center</td>
<td>Clinch Concourse, Third Floor</td>
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<td></td>
<td>7:30 a.m.</td>
<td>5 p.m.</td>
<td><strong>Chair’s Breakfast</strong></td>
<td>Convention Center</td>
<td>Ballroom BC, Third Floor</td>
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<td></td>
<td>8 a.m.</td>
<td>9 a.m.</td>
<td><strong>Course: Mixing &amp; Testing for Compound Consistency</strong></td>
<td>Convention Center</td>
<td>301D, Third Floor</td>
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<td></td>
<td>8:30 a.m.</td>
<td>12:30 p.m.</td>
<td><strong>Course: Selecting the Right Elastomer for Your Sealing Application</strong></td>
<td>Convention Center</td>
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<td></td>
<td>9:30 a.m.</td>
<td>10:30 a.m.</td>
<td><strong>Advisory Committee on Testing Procedures Meeting</strong></td>
<td>Convention Center</td>
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<td></td>
<td>9:30 a.m.</td>
<td>5:15 p.m.</td>
<td><strong>Technical Meeting</strong></td>
<td>Convention Center</td>
<td>Ballroom AEF&amp;G, Third Floor</td>
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<td></td>
<td>10 a.m.</td>
<td>5 p.m.</td>
<td><strong>Expo</strong></td>
<td>Convention Center</td>
<td>Expo Hall, First Floor</td>
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<td></td>
<td>10 a.m.</td>
<td>5 p.m.</td>
<td><strong>Career Fair</strong></td>
<td>Convention Center</td>
<td>Henley Concourse, Third Floor</td>
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<td></td>
<td>11 a.m.</td>
<td>12:30 p.m.</td>
<td><strong>Area Directors Meeting</strong></td>
<td>Convention Center</td>
<td>Rotunda, Third Floor</td>
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<td></td>
<td>1 p.m.</td>
<td>5 p.m.</td>
<td><strong>Course: Scientific Rubber Molding</strong></td>
<td>Convention Center</td>
<td>301D, Third Floor</td>
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<td></td>
<td>1 p.m.</td>
<td>5 p.m.</td>
<td><strong>Course: Rubber Vulcanization &amp; Curing Chemistry</strong></td>
<td>Convention Center</td>
<td>301E, Third Floor</td>
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<tr>
<td></td>
<td>5 p.m.</td>
<td>6 p.m.</td>
<td><strong>Young Professionals Reception</strong></td>
<td>Convention Center</td>
<td>Cumberland Concourse, Third Floor</td>
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<tr>
<td><strong>Thursday</strong></td>
<td>Oct. 13</td>
<td></td>
<td>7:30 a.m. 12 p.m. Registration</td>
<td>Convention Center</td>
<td>Clinch Concourse, Third Floor</td>
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<tr>
<td></td>
<td>8 a.m.</td>
<td>9 a.m.</td>
<td><strong>Awards Breakfast</strong></td>
<td>Convention Center</td>
<td>Ballroom BC, Third Floor</td>
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<tr>
<td></td>
<td>9 a.m.</td>
<td>1 p.m.</td>
<td><strong>Experience Elastomers Student Outreach Program</strong></td>
<td>Convention Center</td>
<td>Ballroom D, Third Floor &amp; Expo Floor, First Floor</td>
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<td></td>
<td>9:30 a.m.</td>
<td>1 p.m.</td>
<td><strong>Technical Meeting</strong></td>
<td>Convention Center</td>
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<td></td>
<td>10 a.m.</td>
<td>1 p.m.</td>
<td><strong>Expo</strong></td>
<td>Convention Center</td>
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IEC Online Guide
Visit the Already Registered page at rubberiec.org to:

> manage your schedule
> view the exhibitor list and expo floor plan
> connect with other attendees
> …and more

Visit rubberiec.org for your IEC online experience.
Opening Ceremony & Keynote Address
October 11, 2022; 9 a.m. - 10 a.m.
Ballroom BC; Third Floor

Join us as we kick-off the International Elastomer Conference with a short welcome from our Chair followed by the Keynote Address.

Keynote Speaker:
Judit E. Puskas; The Ohio State University

Judit E. Puskas is a Distinguished Professor at the Ohio State University. Her research is focusing on the integration of breast cancer diagnosis and treatment with breast reconstruction, in collaboration with the Cleveland Clinic. In 2012, she was one of the five winners of the GE Healthymagination Breast Cancer Challenge Award, selected from 400 international applications. She is the winner of the 2017 Charles Goodyear Medal, the most prestigious award given by the Rubber Division of the American Chemical Society. Puskas is a coinventor of the polymer coating on a coronary stent, implanted into over 10 million patients.

Keynote Address:
Natural Rubber – A Wonderful Renewable Resource for a Circular Economy

This address will discuss natural rubber (NR) produced by plants by converting sunlight, water and carbon dioxide into a wonderful material. Despite a nearly 4,000-year history and the genetic tools of modern biology, we still do not fully understand how NR is made by plants. The exact structure of Hevea rubber, the commercially used NR, is still unknown, and no one has been able to isolate and characterize the enzyme complex catalyzing NR biosynthesis. The US has no commercial NR production of its own and now faces significant supply problems. We need to generate knowledge needed to understand how enzyme complexes from different species produce macromolecular structural variations, how to control these structures in domestic crops, and cultivate and scale domestic rubber crops to industrial level production. Even more importantly, we need to figure out how to make rubber products recyclable. We need a new Charles Goodyear to invent curing systems that are fully recyclable, but are we willing to pay the price? Can we create the “Silicon Valley of Rubber”? 
WORD Workshop  
Monday, Oct. 10; 2 p.m. - 5:30 p.m.  
Ballroom BC; Third Floor  
Our WORD (Women Of Rubber Division) program works to bring the women of our industry together. Stop by registration to see if any workshop spots are still available.

Welcome Reception - All attendees are invited!  
Tuesday, Oct. 11; 5 p.m. - 7 p.m.  
Park Concourse & Plaza Terrace; Second Floor  
We conclude the end of IEC day one with a welcome reception for all attendees to enjoy. The reception features hors d’oeuvres and beverages. Get to know other attendees and exhibitors in a social, relaxed setting.

Student Symposium  
Tuesday, Oct. 11 & Wednesday, Oct. 12  
The Student Symposium includes oral presentations by graduate and undergraduate students during the Technical Meeting, as well as a poster session. Technical Meeting attendees are encouraged to view the student presentations. The posters are displayed in two areas so all IEC attendees can view them. Students will be at their posters Oct. 11 on the Expo floor and Oct. 12 outside Ballroom D so attendees can engage with the students.

25-Year Club Luncheon  
Tuesday, Oct. 11; 12 p.m. - 1 p.m.  
Ballroom BC; Third Floor  
All are invited no matter how long you have worked in our industry! Celebrate individuals who have been active in the rubber industry for 25 or more consecutive years. Stop by registration to see if any tickets are still available.

Get Involved!  
Tuesday, Oct. 11; 3 p.m. - 4 p.m.  
Rotunda; Third Floor  
Ever wonder how becoming active within Rubber Division, ACS can benefit you and your company, what opportunities are available or what it takes to get involved? Attend this session to learn about the requirements, expectations and commitment to be a volunteer, serve on a committee, be an Area Director, become a part of our Board and take the journey on the path to Chair of the division.

5K Walk/Run  
Wednesday, Oct. 12; Check-in at 6:30 a.m.  
Hilton Hotel Lobby  
We’re starting this day off getting together for some exercise and fun, catching up with friends and making new ones.

Chair’s Breakfast  
Wednesday, Oct. 12; 8 a.m. - 9 a.m.  
Ballroom BC; Third Floor  
Our 2022 Chair, James D. Eddy, is the host of this breakfast where Cedric Glasper, Mechanical Rubber President & CEO and Rubber News’ 2021 Executive of the Year, will be the featured speaker. Stop by registration to see if any spots are still available.

Career Fair  
Wednesday, Oct. 12; 10 a.m. - 5 p.m.  
Henley Concourse; Third Floor  
Looking for a new opportunity in our great industry? Meet with and speak to representatives from several respected companies about career opportunities. Employers will have tabletop presentations with job openings and other opportunities.

Young Professionals Reception - For attendees under 40  
Wednesday, Oct. 12; 5 p.m. - 6 p.m.  
Cumberland Concourse; Third Floor  
This will be an opportunity for young professionals in our great industry to get to know and network with one another.

Awards Breakfast  
Thursday, Oct. 13; 8 a.m. - 9 a.m.  
Ballroom BC; Third Floor  
At this breakfast we will announce the winners for the Student Symposium, Service Awards, Best Paper Awards and more. Some of our valued sponsors and corporate members will also be recognized. Stop by registration to see if tickets are available.

Experience Elastomers Student Outreach Program  
Thursday, Oct. 13; 9 a.m. - 1 p.m.  
Ballroom D, Third Floor & Expo Floor, First Floor  
Students will be learning about our industry through hands-on workshops, expo booth interaction activities and discussions regarding different career paths in our great industry.
Meeting Today’s Challenges, Fueling Tomorrow’s Aspirations

Formulate a Sustainable Future with SureMix®

With SureMix® functional process aids, tire manufacturers achieve tomorrow’s performance today — paving the way to new benchmarks in fuel economy and traction. SureMix® also supports sustainability and operational goals.

- **100% Bio-Based Carbon**  
  *(Fossil Free)*

- **84-91% Renewable Content**

- **20-50% Reduction in Energy Consumption**

- **25-35% Reduction in VOCs**  
  *(Ethanol)*

Stop by IEC Booth #827 to learn how to achieve the next level in hysteresis reduction to set the new benchmark in low rolling resistance. Can’t make it to the show? Call (229) 435-8394 or visit polymersolutionsgroup.com/IEC22.
EXHIBITOR LIST

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Ravenna, OH 44266 United States
(330) 577-4088
ace-laboratories.com
erick@ace-laboratories.com
ACE Laboratories is an ISO / IEC 17025: 2017 accredited independent laboratory providing expert testing and development services to the elastomer industry. We service a global customer base from our world class laboratory located in Ravenna, Ohio. We are equipped with an experienced team, innovative testing equipment and a passion to service the customer. Whether it is testing to specifications, formulation development, environmental compliance analysis, reverse engineering, raw material analysis or other technical need, your team of Rubber Nerds® has you covered.

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george.papazotos@airboss.com
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reneehorvatich@akrochem.com
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akronpolymersolutions.com
doug.paschall@akronpolymersolutions.com
Akron Polymer Solutions, Inc. produces a pristine graphene material known as Prophene™. APS has spent the past three years in research and development in the application of Prophene™ for the rubber and polymer markets. Our work includes application in tire tread, sidewall and inner liner components. We will be presenting two technical papers at the Fall ACS Conference in Knoxville, TN - Tire Curing Bladder Technology and Tire Sidewall Compound Antioxidant and Antioxidant System. Dr. Brendan Rodgers will present our findings and data for these two important applications.

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john_meser@ardl.com
ARDL, established in 1962, is an A2LA ISO 17025:2017 accredited, ISO 9001:2015 registered, and FDA compliant independent testing laboratory specializing in rubber, plastic and latex. We provide our world-wide client base with the comfort of complete confidentiality, the reliability of quick turnaround time and the proficiency, knowledge and expertise that they deserve and have come to expect. ARDL works with clients to improve products and/or speed production. ARDL also provides consulting in the legal arena, offering experience-based expert witness and testimony. Other services include product and factory technical audits, failure analysis, technical training and technical problem solving.

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jennifer.shearman@cabotcorp.com
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Cancarb is the leader in the development, manufacturing, and global distribution of medium thermal carbon black. From our plant in Medicine Hat, Alberta, Canada, our Thermax® brand carbon blacks are available globally and offer solutions to the rubber industry. Now with 6 production units, Cancarb brings experience and dependability to customers throughout the world who depend on thermal carbon black production from clean natural gas with a constant focus on quality, sustainability, and reliability. From continual yield improvement initiatives to reduce, reuse & recycle programs, we are acting every day to ensure a clean and healthy planet for future generations.

**CarbonX B.V.** .......................................................... 234
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carbonx.nl
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### Ballroom A

**Session Topic:** Raw Materials Sustainability  
**Co-chairs:** Krishnan Iyer, ExxonMobil; Crittenden Ohlemacher, Smithers  
**Tuesday 1 p.m. – 5:15 p.m.**  
**Wednesday 12:30 p.m. – 5 p.m.**

**Session Topic:** Elastomers for 3D Printing & Additive Manufacturing  
**Co-chairs:** Yusheng Chen, Flexsys; Krishnan Iyer, ExxonMobil  
**Wednesday 9:30 a.m. – 11:30 a.m.**

**Session Topic:** Elastomers in Healthcare  
**Co-chairs:** Leandro Forciniti, Becton, Dickinson & Co.; Mousumi Desarkar, Denka Corporation  
**Thursday 9:30 a.m. – 1 p.m.**

### Ballroom E

**Session Topic:** New Commercial Developments  
**Co-chairs:** Chris Robertson, Polymer Technology Services LLC; Lewis Tunnicliffe, Birla Carbon  
**Tuesday 1:30 p.m. – 5:15 p.m.**  
**Wednesday 9:30 a.m. – 1:30 p.m.**

**Session Topic:** Wear Particles, Leachables & Toxicity  
**Co-chairs:** Luciano Garro, Pirelli; Ed Terrill, Akron Rubber Development Lab  
**Wednesday 1:30 p.m. – 3:15 p.m.**

**Session Topic:** Vibration Isolation  
**Co-chairs:** Joshua Goossens, DRiV Inc.; Greg Li, Dow Chemical Co.  
**Wednesday 3:15 p.m. – 5 p.m.**

**Session Topic:** New Techniques Measuring Rubber Processability  
**Co-chairs:** Ken Bates, Polymer Solutions Group; John Dick, Consultant  
**Thursday 9:30 p.m. – 10:30 a.m.**

**Session Topic:** Elastomers in Infrastructure  
**Co-chairs:** Greg Li, Dow Chemical Co.; Lewis Tunnicliffe, Birla Carbon  
**Thursday 10:30 a.m. – 1 p.m.**

### Ballroom F

**Session Topic:** Aging and Degradation of Rubber  
**Co-chairs:** Richard Pazur, Dept. of National Defence (Canada); Clement Robin, Hutchinson  
**Tuesday 1:30 p.m. – 5:15 p.m.**  
**Wednesday 9:30 a.m. – 2 p.m.**

**Session Topic:** Elastomers for Energy Applications & Extreme Environments  
**Co-chairs:** Bill Stahl, Rainbow Master Mixing, LLC; Richard Windslo, Schlumberger  
**Wednesday 2 p.m. – 5 p.m.**

### Ballroom G

**Session Topic:** Material Technologies Driving Electric Vehicles  
**Co-chairs:** Peter Cameron, Tokai Carbon; Ed Norton, Cancarb  
**Tuesday 1:30 p.m. – 5:15 p.m.**

**Session Topic:** Characterization of Elastomers & Raw Materials  
**Co-chairs:** Will Mars, Endurica LLC; Seth Young, Birla Carbon  
**Wednesday 9:30 a.m. – 5:15 p.m.**  
**Thursday 9:30 a.m. – 1 p.m.**

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TITLE: Silane Functionalized Liquid Rubber for Tire Formulations
TIME: 1pm-1:30pm, Wed, Oct 12th
SESSION CODE: D13

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<td>Eecosil 230G: High Surface Area, Highly Dispersible Silica for Rubber - Walter H. Waddell, Oriental Silicas Corporation</td>
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<td>Sustainable Carbon Additives for Elastomer Products: Carbon Nanotubes Electrochemically Derived from CO2 - Anna Douglas, SkyNano</td>
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<td>Hydrothermally Treated Lignin: A Feasible Bio-filler for High Performance Rubber Applications - Priyanka Sekar, University of Twente</td>
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<td>Increasing Renewable Materials in Rubber and Tire Applications - Kevin Brown, Bolder Industries</td>
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<td>A Critical Examination of the Shelf Life of Nitrile Rubber O-Rings used in Aerospace Sealing Applications - Richard Pazur, Department of National Defence</td>
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<td>Ballroom G</td>
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<td>4:15 p.m.</td>
<td>G3C Technologies Enables True Circular Economy for Tires - Vitaly Khusidman, G3C Technologies</td>
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<td>One-component Cold Bonding Adhesive for Bonding Vulcanized Rubbers for Industrial Applications - Tarek Agag, Parker Hannifin Corporation</td>
<td>Ballroom E</td>
<td>New Commercial Developments</td>
</tr>
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<td>Investigation of Thermo-oxidative Aging Effects on the Network Structural Changes of an Industrial Natural Rubber Compound - Clement Robin, Hutchinson SA-CDR</td>
<td>Ballroom F</td>
<td>Aging &amp; Degradation of Rubber</td>
</tr>
<tr>
<td>4:45 p.m.</td>
<td>Guayule, a Climate Appropriate Crop on the Verge of Commercialization in the Desert Southwestern US as a Source of Domestic Natural Rubber - David Dierig, Bridgestone</td>
<td>Ballroom A</td>
<td>Raw Materials Sustainability</td>
</tr>
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<td>Monolith Plasma Black Environmental Benefits and Performance in Elastomer Formulations - Ned Hardman, Monolith Corporation</td>
<td>Ballroom E</td>
<td>New Commercial Developments</td>
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<td>Effect of Masterbatch Aging Time and Temperature on Rheological and Mechanical Properties of Natural Rubber Compounds - Ali Vahidifar, AirBoss Rubber Solutions</td>
<td>Ballroom F</td>
<td>Aging &amp; Degradation of Rubber</td>
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<td>Effect of Wax Composition and Concentration on Ozone Resistance of NR - Jim Connors, Continental Contitech</td>
<td>Ballroom G</td>
<td>Material Technologies Driving Electric Vehicles (EV)</td>
</tr>
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<td>9:30 a.m.</td>
<td>Smart Viscoelastic Materials via 3D Printing: From Elastomers to Metals Fabrication</td>
<td>Ballroom A</td>
<td>Elastomers for 3D Printing &amp; Additive Manufacturing</td>
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<td>- Rigoberto Advincula, University of Tennessee and ORNL</td>
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<td>Increasing Process Efficiency and Energy Savings with Guided Wave Technology</td>
<td>Ballroom E</td>
<td>New Commercial Developments</td>
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<td>- Michael Drach, Gerlach Maschinenbau GmbH</td>
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<td>Investigating the Discoloration of EPDM Compounds Under UV Aging</td>
<td>Ballroom F</td>
<td>Aging &amp; Degradation of Rubber</td>
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<td>- Xi Chen, The Dow Chemical Company</td>
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<td>Revisiting the Temperature Dependence of Bound Rubber in Carbon Black-filled</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
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<td>Styrene-Butadiene Rubber: Physically versus Chemically Bound Polymer</td>
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<td>- Lucas Wilke, Monolith</td>
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<tr>
<td>10 a.m.</td>
<td>Inkjet Printing of Polydimethylsiloxane/Carbon Black</td>
<td>Ballroom A</td>
<td>Elastomers for 3D Printing &amp; Additive</td>
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<td>(PDMS/CB) Electodes for Dielectric Elastomer Actuators - Jianan Yi, Dresden</td>
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<td>Manufacturing - Student Presentation</td>
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<td>University of Technology</td>
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<td>Baypre 616® VP: ARLANXEO’s new Sulfur Modified Polychloroprene Rubber</td>
<td>Ballroom E</td>
<td>New Commercial Developments</td>
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<td>- Victor Nasreddine, ARLANXEO USA LLC</td>
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<td>Influence of Fillers on Thermal Oxidative Aging Behavior of Polydienes</td>
<td>Ballroom F</td>
<td>Aging &amp; Degradation of Rubber</td>
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<td>- Ulrich Giese, German Institute of Rubber Technology (DIK)</td>
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<td>Nanoscale Dispersion of Carbon Black and Silica in Elastomers by X-ray</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw</td>
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<td>Scattering - Gregory Beaucage, University of Cincinnati</td>
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<td>Materials</td>
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<td>10:30 a.m.</td>
<td>4D Printing of Elastomers for Biomedical Device Fabrication - Jian Lin, University</td>
<td>Ballroom A</td>
<td>Elastomers for 3D Printing &amp; Additive</td>
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<td>of Missouri</td>
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<td>Manufacturing</td>
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<td>Sustainable Carbon Black - Wesley Wampler, Tokai Carbon CB</td>
<td>Ballroom E</td>
<td>New Commercial Developments</td>
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<td>Start with Why! A Study of Mechanisms of Rubber Network Reinforcement</td>
<td>Ballroom F</td>
<td>Aging &amp; Degradation of Rubber</td>
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<td>- Yusheng Chen, Flexsys</td>
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<td>The Effect of Carbon Black Morphology on the Cut and Chip Resistance of Rubber</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw</td>
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<td>Compounds - William Kyei-Manu, Queen Mary University of London</td>
<td></td>
<td>Materials</td>
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<tr>
<td>11 a.m.</td>
<td>3D Printing of Articles such as Seals, Gaskets, and Other Components from</td>
<td>Ballroom A</td>
<td>Elastomers for 3D Printing &amp; Additive</td>
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<td>Thermoset Silicone and Thermoplastic and Apparatus Used for Them</td>
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<td>Manufacturing</td>
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<td>- Mookkan Periyasamy, Greene Tweed &amp; Company</td>
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<td>Surface Modified Low Hysteresis Carbon Black with Improved Rolling Resistance</td>
<td>Ballroom E</td>
<td>New Commercial Developments</td>
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<td>- Raymond Soufiani, Continental Carbon Company</td>
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<td>The Cost and Value of Elastomer Testing for Static Sealing Applications Part 2</td>
<td>Ballroom F</td>
<td>Aging &amp; Degradation of Rubber</td>
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<td>- Paul Tuckner, Grace Technology and Development</td>
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<td>Steady State and Dynamic Oscillatory Shear Properties of Carbon Black Filled</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw</td>
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<td>Elastomers - Avraam Isayev, University of Akron</td>
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<tr>
<td>Wednesday, Oct. 12</td>
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<tr>
<td>12:30 p.m.</td>
<td>Moving in the Green Direction with Renewable and Circular Raw Materials - Klaus Schulmeister, Synthos S.A.</td>
<td>Ballroom A</td>
<td>Raw Materials Sustainability</td>
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<td>Silicone-Polyolefin Hybrid Elastomer - Noel Chang, Dow</td>
<td>Ballroom E</td>
<td>New Commercial Developments</td>
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<td>Quantifying Subtle Differences Among Different Grades of Zinc Oxide Used Commercially in the Rubber Industry - John Dick, Alpha Technologies</td>
<td>Ballroom F</td>
<td>Aging &amp; Degradation of Rubber</td>
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<td>Manifold Role of DPG Inside a Silica-filled Tire Tread Compound - Anke Blume, University of Twente</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
</tr>
<tr>
<td>1 p.m.</td>
<td>Tire Sidewall Compound Antiozonant and Antioxidant System - Brendan Rodgers, Akron Polymer Solutions</td>
<td>Ballroom A</td>
<td>Raw Materials Sustainability</td>
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<td>Driving Technology Forward: Using Techno-economics to Evaluate Co-product Revenue Potential for Guayule Natural Rubber Commercialization - Brooke Silagy, Colorado State University</td>
<td>Ballroom E</td>
<td>New Commercial Developments - Student Presentation</td>
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<td>Chemical and Physical Effects on the Abrasion of Rubber - Paul Pavka, Akron Rubber Development Laboratory, Inc.</td>
<td>Ballroom F</td>
<td>Aging &amp; Degradation of Rubber</td>
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<td>Silane Functionalized Liquid Rubber for Tire Formulations - Yoshikazu Ueno, Kuraray Co. LTD</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
</tr>
<tr>
<td>1:30 p.m.</td>
<td>New Rubber Compounding Additives to Remove Resorcinol, Cobalt, and Formaldehyde - Paul Fithian, BruggemannChemical U. S. Inc.</td>
<td>Ballroom A</td>
<td>Raw Materials Sustainability</td>
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<td>Nanoparticles from Tire Tread Wear - Gregory Beaucage, University of Cincinnati</td>
<td>Ballroom E</td>
<td>Wear Particles, Leachables &amp; Toxicity</td>
</tr>
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<td>Various View Points on Thermogravimetric Analysis to Obtain Activation Energy of Tetrafluoroethylene-propylene Elastomer - Masayuki Ito, Waseda University</td>
<td>Ballroom F</td>
<td>Aging &amp; Degradation of Rubber</td>
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<td>Mechanical and Dynamic Properties of Peroxide Cured HNBR Compounds, Part 2: HNBR Terpolymers - Victor Nasreddine, ARLANXEO USA LLC</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
</tr>
<tr>
<td>2 p.m.</td>
<td>Blended Urea Formaldehyde-Guayule Resin Adhesives - Sarocha Pradyawong, The University of Arizona</td>
<td>Ballroom A</td>
<td>Raw Materials Sustainability</td>
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<td>Chemical Composition of Tire Wear Particles and its Implication - Stephan Wagner, Hof University of Applied Sciences</td>
<td>Ballroom E</td>
<td>Wear Particles, Leachables &amp; Toxicity</td>
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<td>Three-layer Laminates from Bromobutyl - Acrylonitrile Butadiene and Fluoroelastomer (BIIR-NBR-FKM) for Chemical Protection - Jianan Yi, Univ. Massachusetts Lowell</td>
<td>Ballroom F</td>
<td>Elastomers for Energy Applications &amp; Extreme Environments - Student Presentation</td>
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<td>Effect of Specimen Thickness and Blade Sharpness on Intrinsic Strength Measurements - Will Mars, Endurica LLC</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
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<tr>
<td>Wednesday, Oct. 12</td>
<td>Commodity Petrochemical Markets: Key Drivers and Other Things to Watch - Bill Hyde, Chemical Market Analytics</td>
<td>Ballroom A</td>
<td>Raw Materials Sustainability</td>
</tr>
<tr>
<td>2:45 p.m.</td>
<td>Preparation and Analysis of Dimethyl Diphenyl Modified Silicone Elastomers. - Charles Olsen, Savanture</td>
<td>Ballroom F</td>
<td>Elastomers for Energy Applications &amp; Extreme Environments</td>
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<td>About the Influence of Fine Mesh Straining upon the Rheological and Physical Properties of Rubber Compounds - Julia Uth, Uth GmbH</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
</tr>
<tr>
<td>3:15 p.m.</td>
<td>Sustainable Additives for the Rubber Industry - Joel Neilsen, Lanxess Corp</td>
<td>Ballroom A</td>
<td>Raw Materials Sustainability</td>
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<td>Sustainable Vibration Isolation Compounds - Mike Kumbalek, Bolder Industries</td>
<td>Ballroom E</td>
<td>Vibration Isolation</td>
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<td>Functionalized Thermoplastic Elastomers for Next-generation WiSE Li-Ion Batteries - Richard Spontak, North Carolina State University</td>
<td>Ballroom F</td>
<td>Elastomers for Energy Applications &amp; Extreme Environments</td>
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<td>Probing the Viscoelastic Properties of Polymer Composites Across Time and Temperature with AFM-based Nano-DMA - Bede Pittenger, Bruker</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
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<tr>
<td>3:45 p.m.</td>
<td>A More Sustainable Approach to Fluoropolymer Production - Greg Poterala, Solvay</td>
<td>Ballroom A</td>
<td>Raw Materials Sustainability</td>
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<td>Fatigue Analysis of 6 Channel Road Load History for an Elasticomeric Transmission Mount - Will Mars, Endurica LLC</td>
<td>Ballroom E</td>
<td>Vibration Isolation</td>
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<td>Operation Limit Prediction of HNBR in Downhole Application for the Energy Industry - Jay Yun, Schlumberger</td>
<td>Ballroom F</td>
<td>Elastomers for Energy Applications &amp; Extreme Environments</td>
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<td>Development of Tailored Branched EPDM with a Focus on Amorphous Composition - Nicola Latorraca, Versalis S.p.A.</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
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<tr>
<td>4:15 p.m.</td>
<td>Sustainability in the Rubber Mixing Room - Bob McNabb, Zeppelin Systems USA, Inc.</td>
<td>Ballroom A</td>
<td>Raw Materials Sustainability</td>
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<td>An Overview of Air Spring Technology - Tapan Das Gupta, Indian Institute of Rubber Industry</td>
<td>Ballroom E</td>
<td>Vibration Isolation</td>
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<td>Designing Rubber Compounds for Mars Exploration Missions - Rafal Anyszka, University of Twente</td>
<td>Ballroom F</td>
<td>Elastomers for Energy Applications &amp; Extreme Environments</td>
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<td>Characterization and Comparison of Different Oligomeric Resins in Tyre Tread Application - Antara Mondal, APOLLO TYRES LIMITED</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
</tr>
<tr>
<td>4:45 p.m.</td>
<td>Evaluation of Liquid Farnesene/Butadiene Rubber in a Silica Tread - Edward Terrill, Akron Rubber Development Laboratory, Inc.</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
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<td>9:30 a.m.</td>
<td>Halogenated Butyl Rubber For Medical Applications - Kevin Kulbaba, ARLANXEO</td>
<td>Ballroom A</td>
<td>Elastomers in Healthcare</td>
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<td>Characterization of Thermo-responsive Shape Memory Behaviour of Smart Rubbers through TSSR Study - Kinsuk Naskar, IIT Kharagpur</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
</tr>
<tr>
<td>10 a.m.</td>
<td>Material Selection Study on a Range of Block Copolymers for a Synthetic Heart Valve Replacement - Ruhi Patel, University of Cambridge</td>
<td>Ballroom A</td>
<td>Elastomers in Healthcare - Student Presentation</td>
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<td>Tire Curing Bladder Technology - Brendan Rodgers, Akron Polymer Solutions</td>
<td>Ballroom E</td>
<td>New Techniques Measuring Rubber Processability</td>
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<tr>
<td>10:30 a.m.</td>
<td>Novel Polychloroprene Rubber Emulsion for Manufacturing Medical Gloves with Reduced Risk of Hypersensitivity - Mousumi De Sarkar, DENKA Corporation</td>
<td>Ballroom A</td>
<td>Elastomers in Healthcare</td>
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<td>Future Requirements of Elastomeric Products in the Perspective of Off-road Equipment Manufacturers - Madhuchhanda Maiti, John Deere India Pvt. Ltd.</td>
<td>Ballroom E</td>
<td>Elastomers in Infrastructure</td>
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<td>New Insight Views of Piezoelectric Energy Harvesters in Tyres - Carmela Mangone, University of Twente</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
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<td>11 a.m.</td>
<td>SAE J2979 CSR Test Method Update - Background Information for the Suggested Changes - Paul Tuckner, Grace Technology and Development</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
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<tr>
<td>11:15 a.m.</td>
<td>Butyl and Halobutyl Elastomers for Pharmaceutical Applications - Sunny Jacob, ExxonMobil Chemical</td>
<td>Ballroom A</td>
<td>Elastomers in Healthcare</td>
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<td>EPDM Product Design and Longevity Considerations for Roofing Membranes - Yushan Hu, Dow, Inc.</td>
<td>Ballroom E</td>
<td>Elastomers in Infrastructure</td>
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<tr>
<td>11:30 a.m.</td>
<td>Effect of Third Monomer in Emulsion SBR Prepared by Reversible Addition-fragmentation Chain Transfer (RAFT) Polymerization on the Properties of Silica-filled Compounds - Wonho Kim, Pusan National University</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
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<td>Elastic SEBS Beads to Enhance Magnetorheological Fluid Performace - Sandhiya Thigagarajan, The University of Alabama, Tuscaloosa</td>
<td>Ballroom E</td>
<td>Elastomers in Infrastructure - Student Presentation</td>
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<td>12 p.m.</td>
<td>Self-healing Bio-based Thermoplastic Elastomers Reinforced with Alginic Acid Salts - Saul Utrera-Barrios, Institute of Polymer Science and Technology (ICTP), CSIC</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
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<tr>
<td>12:30 p.m.</td>
<td>Rheological Behavior of Liquid Metal Multi-material Synthetic Rubber Composites for Stretchable Electronics - Elizabeth Bury, The University of Alabama</td>
<td>Ballroom G</td>
<td>Characterization of Elastomers &amp; Raw Materials</td>
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</table>

TECHNICAL MEETING – OCTOBER 11-13, 2022
The Student Symposium includes oral presentations by graduate and undergraduate students, as well as a poster session. Technical Meeting attendees are encouraged to view the student presentations. The posters will be displayed in two areas so all IEC attendees can view them.

**STUDENT PRESENTATIONS**

Each presentation will take place in the relevant session topic during the Technical Meeting.

**October 11**
- Hydrothermally Treated Lignin – A Feasible Bio-filler for High Performance Rubber Applications - Priyanka Sekar, University of Twente

**October 12**
- Inkjet Printing of Polydimethylsiloxane/carbon Black (PDMS/CB) Electrodes for Dielectric Elastomer Actuators - Jianan Yi, Dresden University of Technology
- The Effect of Carbon Black Morphology on the Cut and Chip Resistance of Rubber Compounds - William Kyei-Manu, Queen Mary University of London
- Driving Technology Forward: Using Techno-economics to Evaluate Co-product Revenue Potential for Guayule Natural Rubber Commercialization - Brooke Silagy, Colorado State University
- Three-layer Laminates from Bromobutyl-acrylonitrile Butadiene and Fluoroelastomer (BIIR-NBR-FKM) for Chemical Protection - Jianan Yi, University of Massachusetts Lowell

**October 13**
- Material Selection Study on a Range of Block Copolymers for a Synthetic Heart Valve Replacement - Ruhi Patel, University of Cambridge
- New Insight Views of Piezoelectric Energy Harvesters in Tyres - Carmela Mangone, University of Twente
- Elastic SEBS Beads to Enhance Magnetorheological Fluid Performance - Sandhya Thiagarajan, The University of Alabama, Tuscaloosa
- Self-healing Bio-based Thermoplastic Elastomers Reinforced with Alginic Acid Salts - Saul Utrera-Barrios, Institute of Polymer Science and Technology (ICTP), CSIC
- Rheological Behavior of Liquid Metal Multi-material Synthetic Rubber Composites for Stretchable Electronics - Elizabeth Bury, The University of Alabama

**STUDENT POSTERS**

Posters will on display in two locations. Students will be at their posters from 10:30 a.m. – 11:30 a.m. Oct. 11 on the Expo floor and from 2:30 p.m. to 4 p.m. Oct. 12 outside Ballroom D so attendees can engage with the students.

- Fabrication of Shape Memory Polymers by In-situ Polymerization, Grafting, and Crosslinking of Octadecyl Acrylate/Polybutadiene Blends - Sayan Basak, University of Akron
- Poly(N-vinyl carbazole)-Graphene Oxide Nanocomposites for Improved Dispersion and Thermomechanical Properties in Silicone Rubber with Applications in Additive Manufacturing - Emily Buckner, University of Tennessee
- Additively Manufactured Polyvinylidene Fluoride Materials with Optimized Thermomechanical and Electrical Performance - Tabitha Burch, University of Tennessee
- Conductive Carbon Black Based Thermoplastic Elastomeric Blend Composites for Inhibiting Radiation Pollution - Suman Kumar Ghosh, Indian Institute of Technology Kharagpur
- Printing and Characterization of PVK-treated CNT in Lexel - Emma Howard, University of Tennessee
- Supercritical Fluid Treatment for High Strength and High Heat Dissipative Rubber Composites - Do Hyeong Kim, Chungnam National University
- 3D Printing of Polyelectrolyte Materials via Direct Ink Writing - Charles Patten, University of Tennessee
- Three-layer Laminates from Bromobutyl-acrylonitrile Butadiene and Fluoroelastomer (BIIR-NBR-FKM) for Chemical Protection - Jianan Yi, University of Massachusetts Lowell
- Material Selection Study on a Range of Block Copolymers for a Synthetic Heart Valve Replacement - Ruhi Patel, University of Cambridge
- Influence of Carbon Black Crystallinity on the Dispersion and Dynamic Properties of Rubber compounds - Abbas Saifee Valsadwala, The University of Akron
- Evaluating the Effects of Processing Parameters on the Morphology of Resin-filled Rubber Componds: A Study Using Design of Experiments - Rohan Das, Luxembourg Institute of Science and Technology
- Design/Fabrication of Bi-Axial Tensile Testing Machine and Numerical Modeling of Polymer Composite Under Bi-Axial Stress State - Supun Sandanayaka, University of Moratuwa
- Thermomechanical Optimization Study on the Extruding Temperature Effects of FDM 3D Printed PPSU and PPS - Travis Vaske, University of Tennessee
- Mechanically Diverse Gels with Equal Solvent Content - Foad Vashahi, University of North Carolina
Rubber Explained  
Oct. 10; 9 a.m. - 4 p.m. – 301D, Third Floor  
Instructor: Erick Sharp, ACE Laboratories, Inc.  
CEUs: 0.66

Thermoplastic & Functional Elastomers  
Oct. 10; 9 a.m. - 5 p.m. – 301E, Third Floor  
Instructor: Dr. Richard Spontak, North Carolina State University  
CEUs: 0.76

Essentials of Rubber Technology  
Oct. 11; 8:30 a.m. - 12:30 p.m. – 301D, Third Floor  
Instructor: Joseph Walker, Elastomer Technologies  
CEUs: 0.4

Dynamic Viscoelastic Properties  
Oct. 11; 8:30 a.m. - 12:30 p.m. – 301E, Third Floor  
Instructors: Nicki Hershberger & Kylie Knipp, Akron Rubber Development Laboratory  
CEUs: 0.38

Essentials of Silicone Rubber  
Oct. 11; 1 p.m. - 5 p.m. – 301D, Third Floor  
Instructor: Joseph Walker, Elastomer Technologies  
CEUs: 0.4

Laboratory Safety  
Oct. 11; 1 p.m. - 4 p.m. – 301E, Third Floor  
Instructor: William Stahl, Rainbow Master Mixing, LLC  
CEUs: 0.2

Mixing & Testing for Compound Consistency  
Oct. 12; 8:30 a.m. - 12:30 p.m. – 301D, Third Floor  
Instructor: Joseph Walker, Elastomer Technologies  
CEUs: 0.4

Selecting the Right Elastomer for Your Sealing Application  
Oct. 12; 8:30 a.m. - 12:30 p.m. – 301E, Third Floor  
Instructor: William Stahl, Rainbow Master Mixing, LLC  
CEUs: 0.38

Scientific Rubber Molding  
Oct. 12; 1 p.m. - 5 p.m. – 301D, Third Floor  
Instructor: Joseph Walker, Elastomer Technologies  
CEUs: 0.4

Rubber Vulcanization & Curing Chemistry  
Oct. 12; 1 p.m. - 5 p.m. – 301E, Third Floor  
Instructor: Nicki Hershberger & Kylie Knipp, Akron Rubber Development Laboratory  
CEUs: 0.38

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