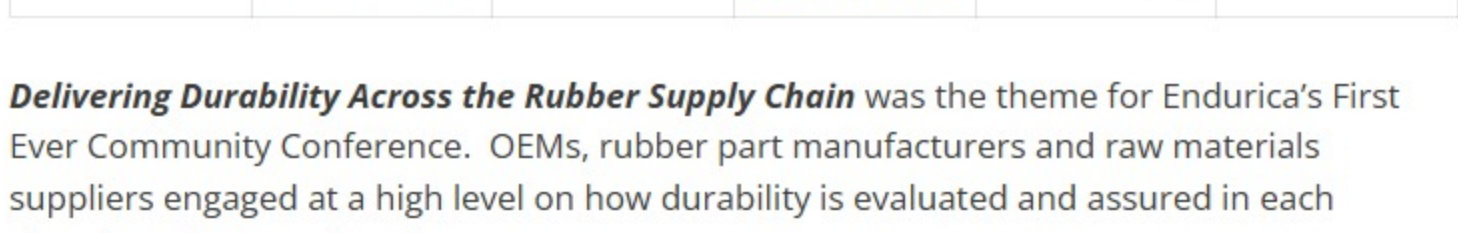


Eclipse with Endurica Community Conference



Presenting Sponsors



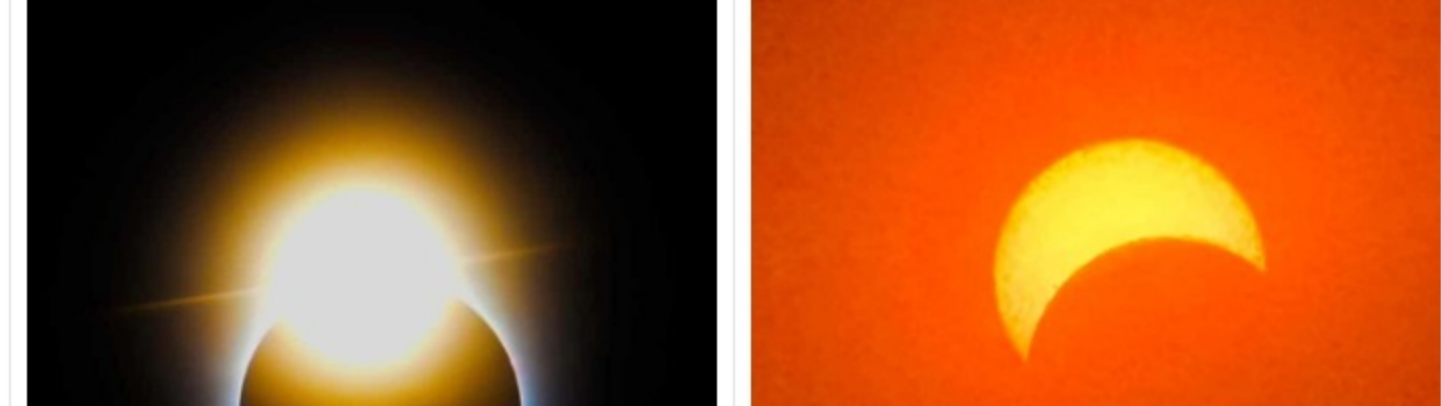
Sponsors



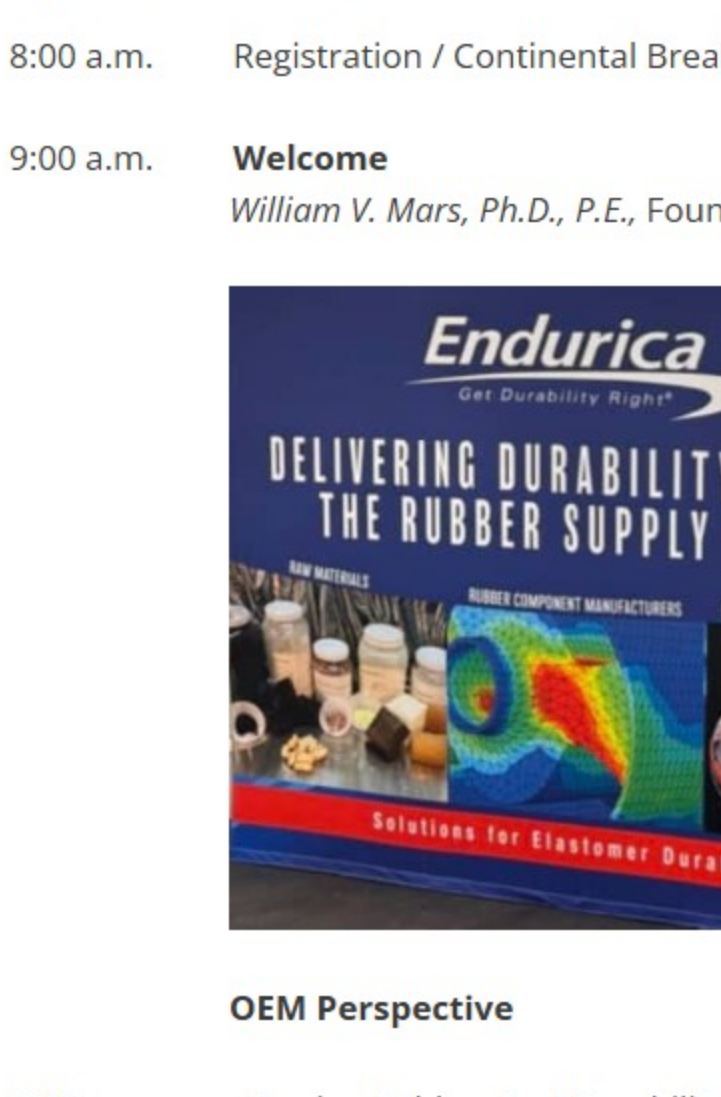
Delivering Durability Across the Rubber Supply Chain was the theme for Endurica's First Ever Community Conference. OEMs, rubber part manufacturers and raw materials suppliers engaged at a high level on how durability is evaluated and assured in each domain and across domains.

View the Eclipse with Endurica Presentation Abstracts and Program Book

View the Highlights Video (1:45)



On April 8, 2024, the United States experienced a Total Solar Eclipse and Endurica's home city of Findlay, Ohio was very close to the center of the path of totality. Attendees were treated to clear blue skies and the very best viewing location for the eclipse.



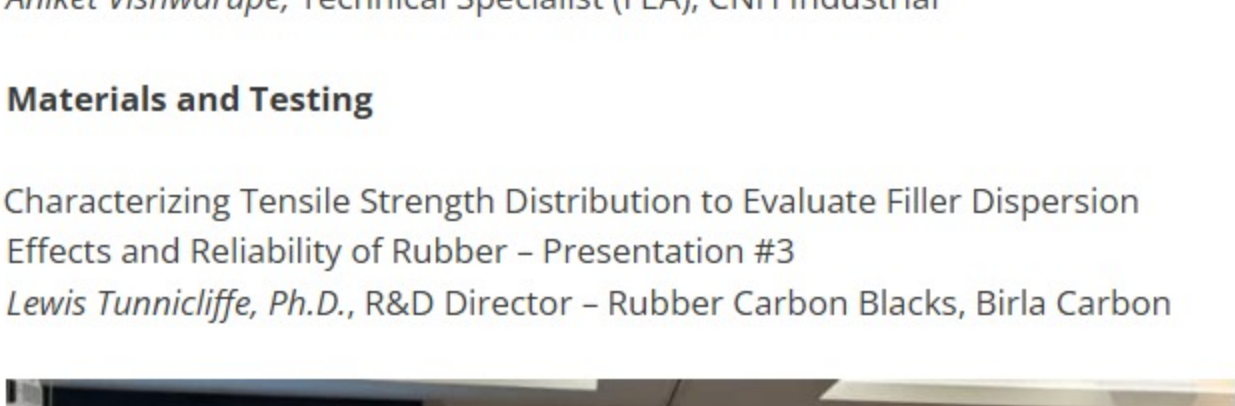
April 8, 2024 - Day One

8:00 a.m. Registration / Continental Breakfast

9:00 a.m. **Welcome**
William V. Mars, Ph.D., P.E., Founder and President, Endurica



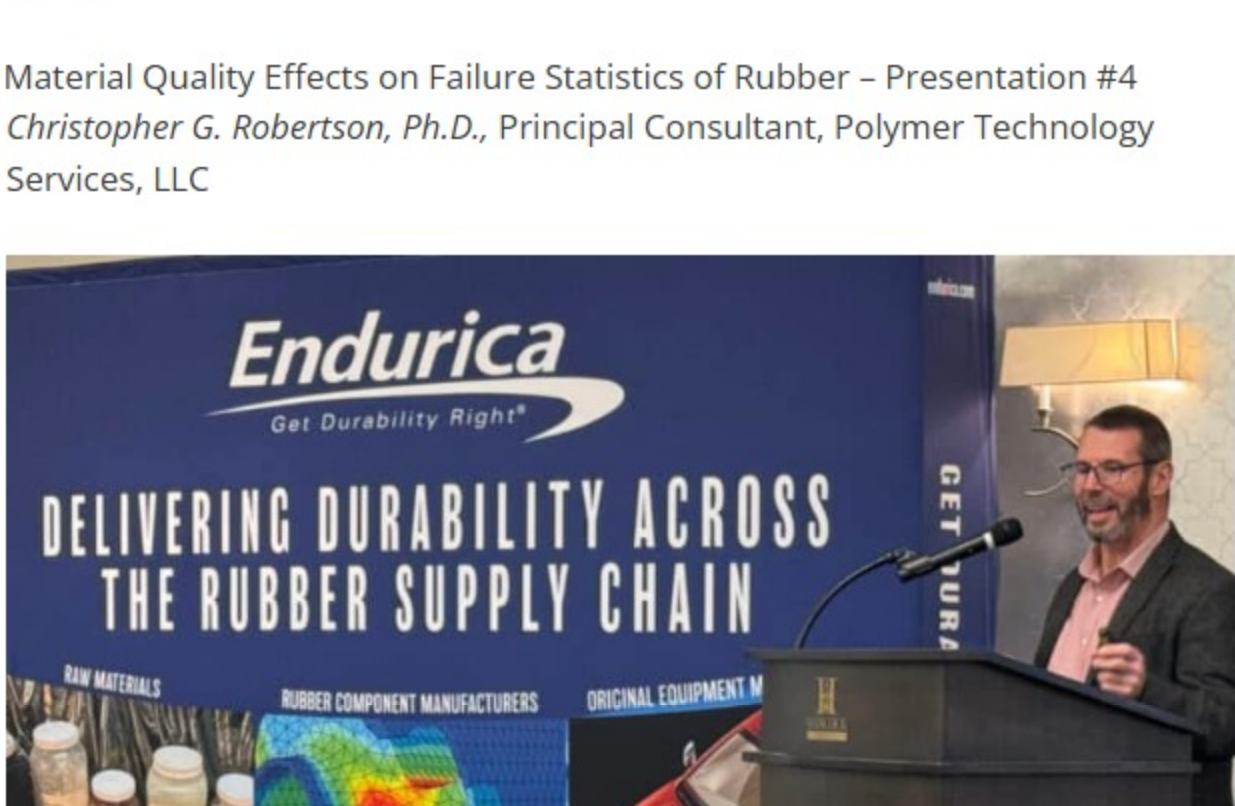
9:15 a.m. **OEM Perspective**
Owning Rubber Part Durability for Suspension Applications in the Virtual Age – Presentation #1
Matthew Wiczorek, Engineering Group Manager, General Motors Company



9:45 a.m. **Breaking New Ground: Delivering Elastomer Durability for Heavy Equipment** – Presentation #2
Hui Deng, Ph.D., Design Analysis & Simulation for NAFTA & APAC CE Central Product Validation, CNH Industrial
Aniket Vishwakarma, Technical Specialist (FEA), CNH Industrial

Materials and Testing

10:15 a.m. **Characterizing Tensile Strength Distribution to Evaluate Filler Dispersion Effects and Reliability of Rubber** – Presentation #3
Lewis Tunnicliffe, Ph.D., R&D Director – Rubber Carbon Blacks, Birla Carbon

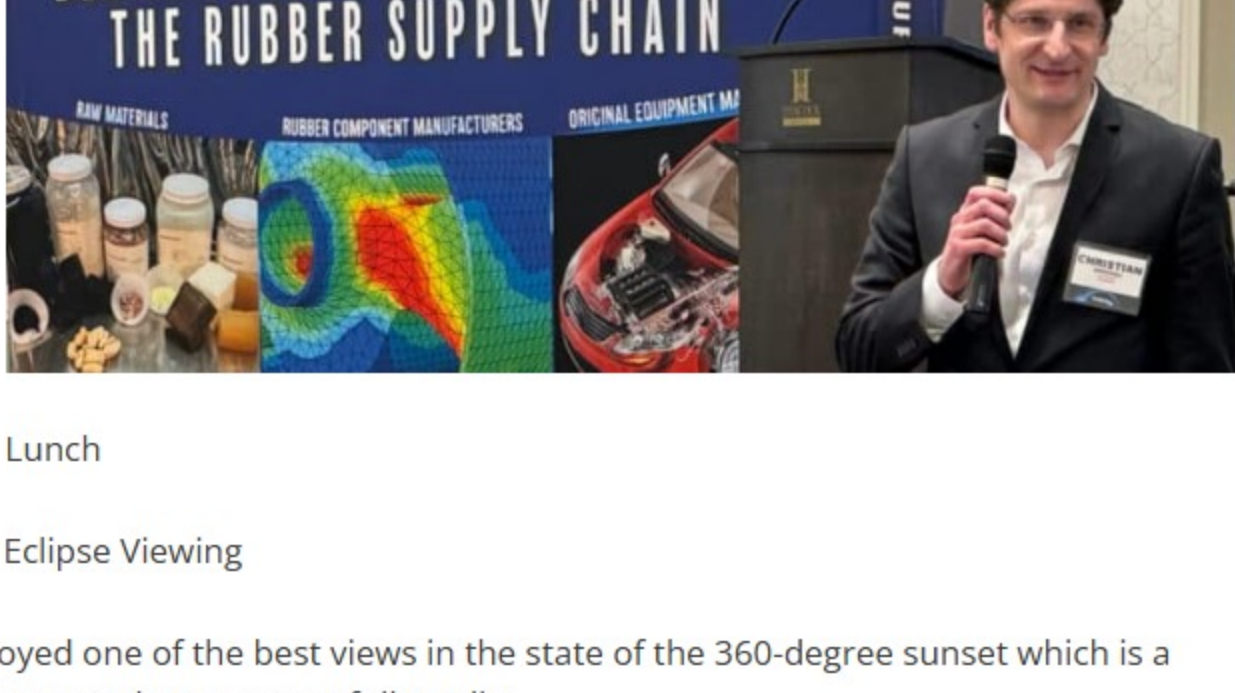


10:45 a.m. Break

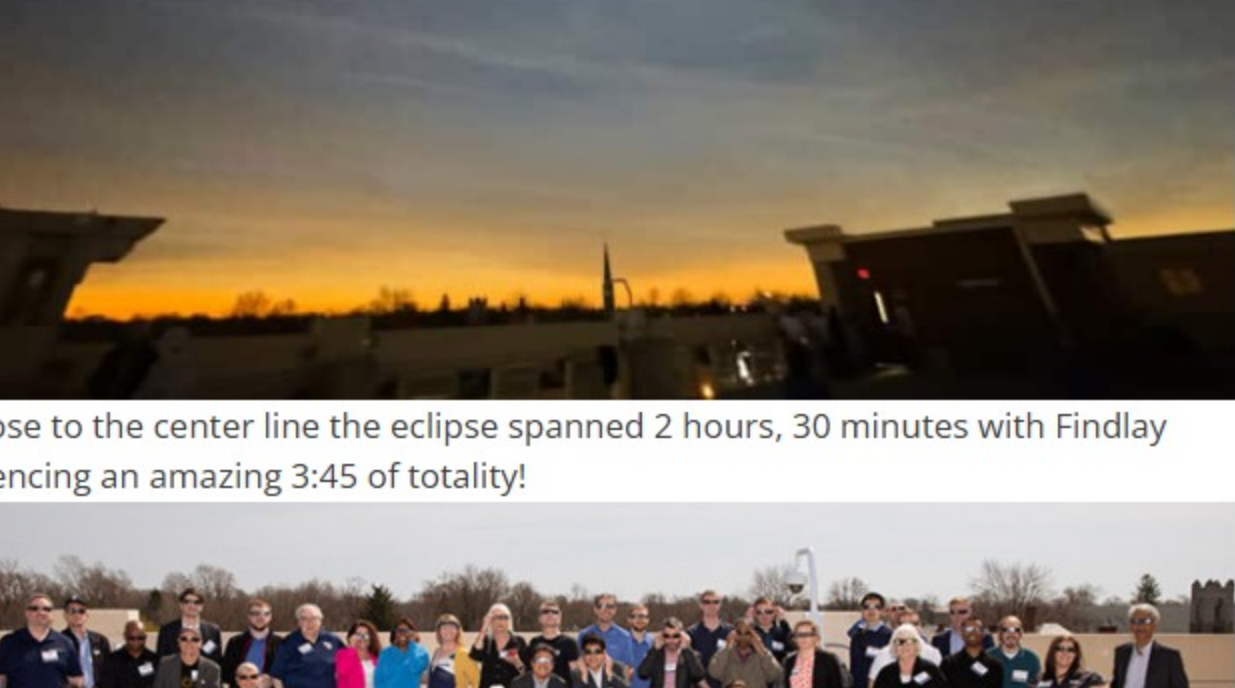
11:00 a.m. **Material Quality Effects on Failure Statistics of Rubber** – Presentation #4
Christopher G. Robertson, Ph.D., Principal Consultant, Polymer Technology Services, LLC



11:30 a.m. **Measuring Material Properties for the Durability Analysis of Rubber Products** – Presentation #5
Kurt Miller, President, Axel Products



12:00 p.m. **Testing for Durability Simulation and Product Development** – Presentation #6
Christon Kipschull, President, Coesfeld Material Test GmbH



12:30 p.m. Lunch

1:30 p.m. Eclipse Viewing

- We enjoyed one of the best views in the state of the 360-degree sunset which is a phenomenon that occurs at full totality.



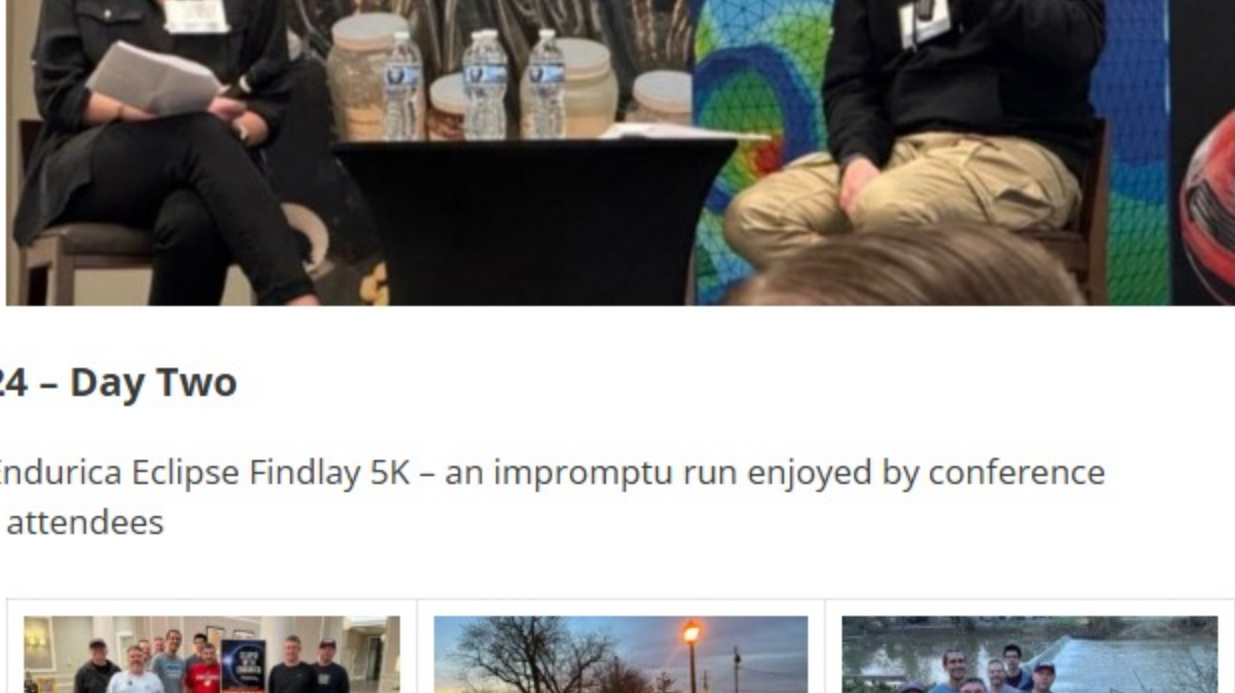
- This close to the center line the eclipse spanned 2 hours, 30 minutes with Findlay experiencing an amazing 3:45 of totality!



- Eclipse Details:
 - Eclipse 2024: The Planet's Most Spectacular Natural Event is Coming to America
 - Findlay Total Solar Eclipse
 - Great American Eclipse: Check out the eclipse-shaped shadows visible in the shadows – this photo was taken after first contact and before totality.



6:00 p.m. **Dinner featuring presentation by David Cawthra and Gail Reader – Rubber Heart – Presentation #7**



April 9, 2024 - Day Two

6:30 a.m. **Endurica Eclipse Findlay 5K – an impromptu run enjoyed by conference attendees**



7:30 a.m. All American Breakfast Buffet: eggs, bacon, potatoes, fresh fruit, pastries

8:30 a.m. **Accurate. Complete. Scalable: 3-year vision** – Presentation #8
William V. Mars, Ph.D., P.E., Founder and President, Endurica

Supplier Perspective

9:00 a.m. **Rate Loss in Suspension Bushings** – Presentation #9
Vladimir Pedrazo Otero, Senior Design & Product Engineer, Rasini Bypass

9:30 a.m. **Predicting a Rubber Spring's Wohler Line with Endurica in the Presence of Self-Contact** – Presentation #10
Nina Heinrich, Ph.D., Structural Engineer, Trelleborg Antivibration Solutions

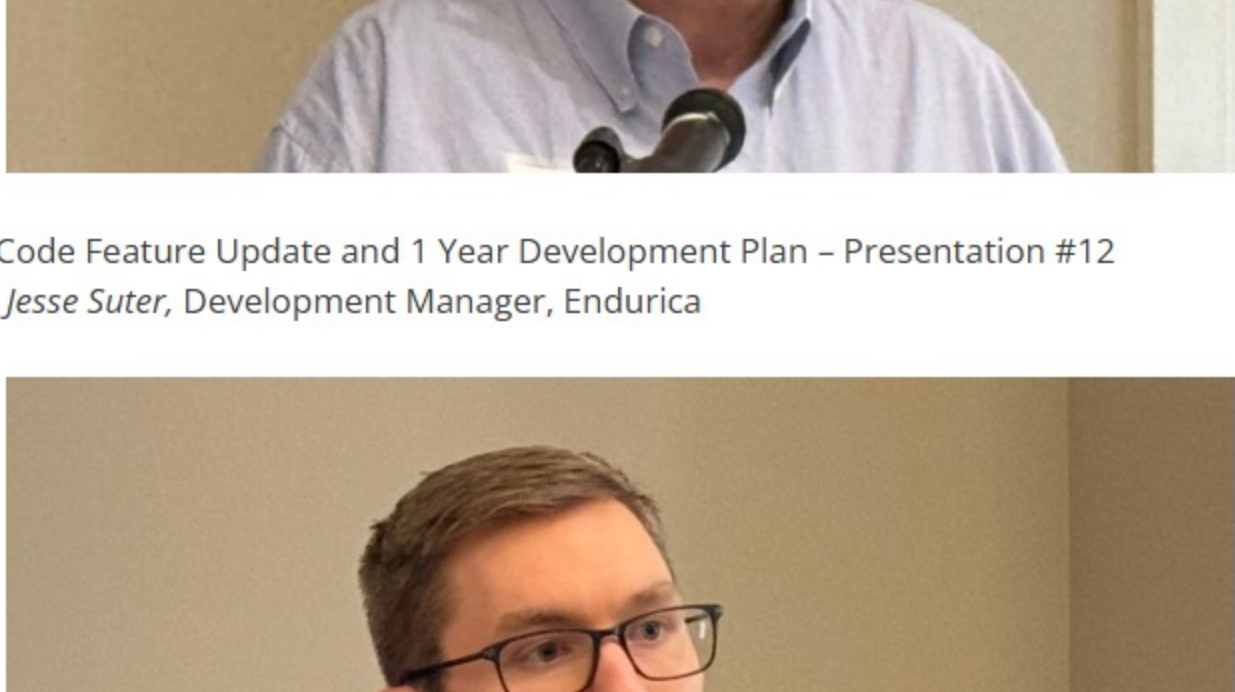


10:00 a.m. **Measuring Nonlinear Proving Ground Loads for a Rubber Component** – Presentation #11
Tim Hunter, Ph.D., President Wolf Star Technologies

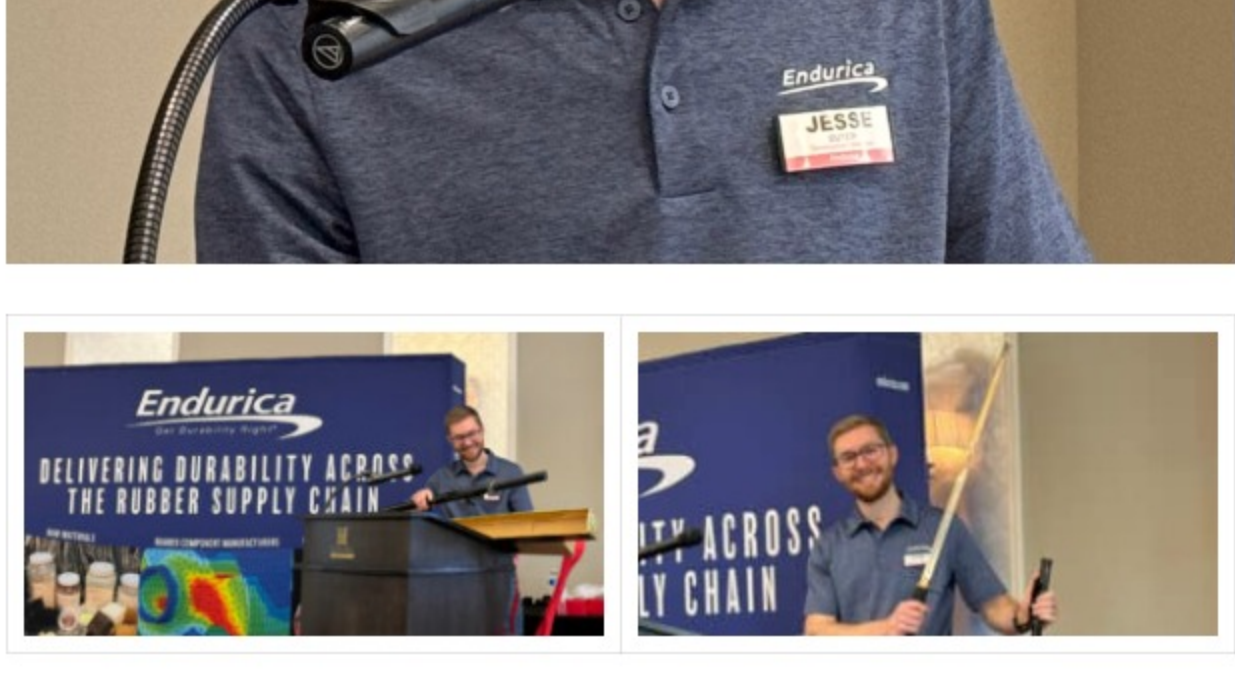


10:30 a.m. Break – Browse, discuss, and get valuable information from Sponsor and Endurica stations.

11:00 a.m. **Delivering Durability Across the Rubber Supply Chain**
Panel discussion moderated by *Thomas G. Ebbott, Ph.D., Vice President, Endurica*
Kevin Barbach, VDDV Technical Specialist for Suspension and Driveline, General Motors
Scott Braddock, CAD / CAE Manager, Tenneco
Prasanna Kondapalli, Ph.D., Team Leader/Structural CAE Group, Performance Materials Division, BASF Corp
Mohammed Rezaul Karim, Ph.D., Technical Consultant, Celanese
Anoop Varghese, Ph.D., Technical Specialist, Durability & Simulation, Bridgestone Americas
Touhid Zarin-Gholami, Ph.D., CAE Front Chassis Engineer, Durability Technical Specialist, Stellantis, NA



12:00 p.m. Lunch – featuring presentation by *Bruce Meyer, Editor of Rubber News*



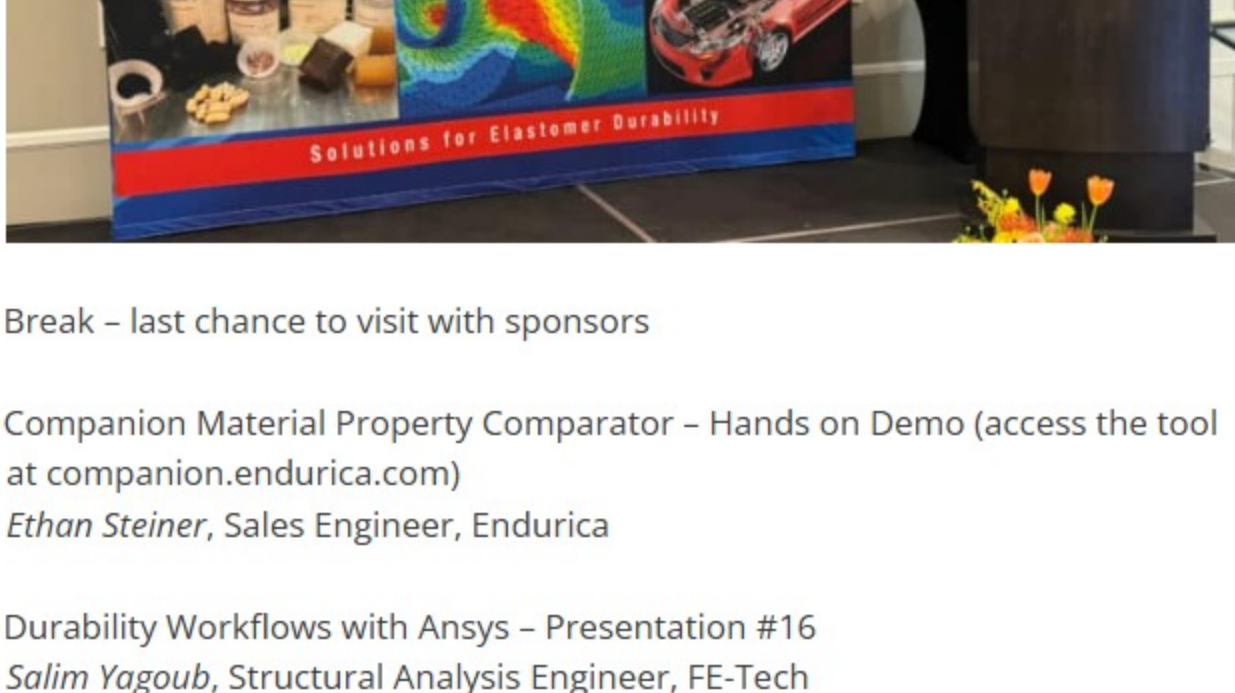
1:00 p.m. **Code Feature Update and 1 Year Development Plan** – Presentation #12
Jesse Suter, Development Manager, Endurica



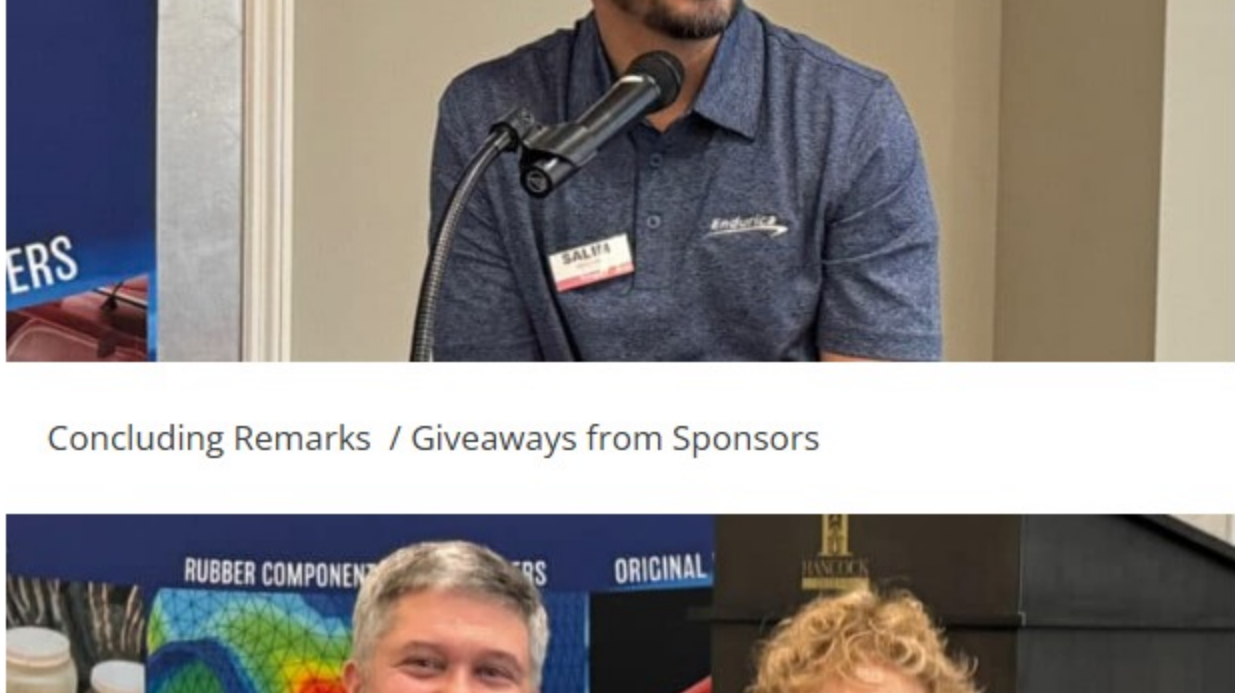
1:30 p.m. **Optimal Design of a Support Ring Type Run-Flat Tire System for High Fatigue Life in Zero Pressure Driving Conditions** – Presentation #13
Abhishek Sarawat, Graduate Student, Virginia Tech – working in the Centre for Tire Research (CentTire)



2:00 p.m. **Workflows for Tire Analysis** – Presentation #14
Mark Bauman, Engineering Analyst, Endurica



2:15 p.m. **Computing Tire Durability from Road Loads from the Nurburgring Circuit** – Presentation #15
Jason Barr, Simulia Industry Process Consultant, Dassault Systemes



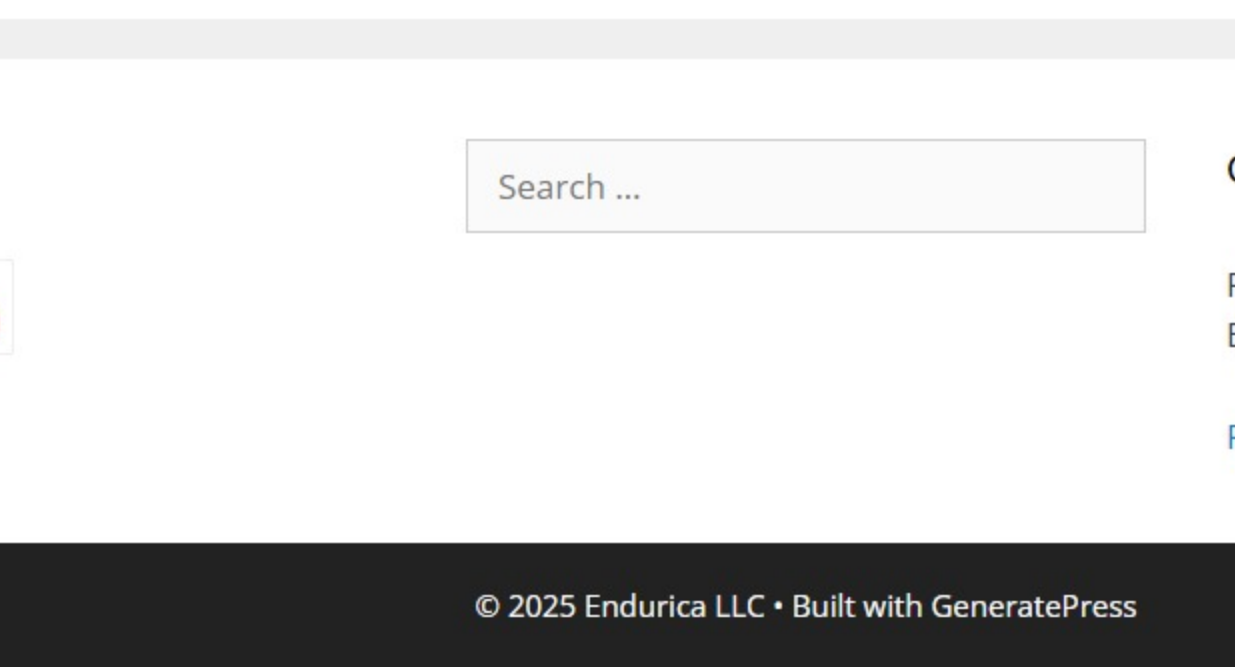
2:45 p.m. Break – last chance to visit with sponsors

3:00 p.m. **Companion Material Property Comparator** – Hands on Demo (access the tool at companion.endurica.com)
Ethan Steiner, Sales Engineer, Endurica

3:15 p.m. **Durability Workflows with Ansys** – Presentation #16
Salim Yagoub, Structural Analysis Engineer, FE-Tech



3:45 p.m. **Concluding Remarks / Giveaways from Sponsors**



4:00 p.m. Adjourn

Who joined?

Endurica's community from around the globe, including users from Germany, Mexico, Switzerland, Turkey, United Kingdom and across the United States.

MORE than a Users Conference!

Endurica's Community includes ALL who have an interest in elastomer durability and they enjoyed checking out the best tools and processes in the industry while having a top-notch eclipse experience.

Our thanks to the great staff of The Hancock Hotel. Findlay's premier venue has received AAA Four-Diamond Hotel and is ranked the second-best hotel in all of Ohio. Located in downtown Findlay on the campus of Marathon Petroleum Corporation, LP, the hotel is uniquely situated near a number of local boutique shops, restaurants, parks and entertainment venues. Inside the hotel you will find Mancy's Steakhouse, an Ohio classic that originated in Toledo in 1921. Findlay, Ohio is directly centered between Detroit, Michigan – the auto capital and Akron, Ohio – the rubber capital.

Questions? Email pauline.glaze@endurica.com

News & Events

[Check out Endurica's Latest Newsletter](#)

2025 Training Dates

Characterising Elastomer Fatigue Behavior for Analysis and Engineering
March 17-21, 2025
November 2-6, 2025

Application of Rubber Fatigue Analysis with Endurica Software
March 25-28, 2025
November 10-13, 2025

Blog Posts

Rubber Fatigue # Metal Fatigue Part 3: Thermal Effects
4-p-1
Rubber Fatigue # Metal Fatigue Part 2: Linear Superposition
Combine Multiple Load Cases into a Block Cycle Schedule that Executes as a Single Endurica Job
Rubber Fatigue # Metal Fatigue Part 1: Mean Strain Effects

Blog Categories

Best Practices
Business Case
Critical Plane Analysis
FEA
Industry Outlook
Instruments
Materials
Characterization
New Developments
OEM
Rubber Component
Software
Supplier
Testing
Theory
Trade Shows
Uncategorized
Validation