

# SPEAKING ENDURICAN

**Endurica**  
Get Durability Right®**Endurica Community Conference**  
**Save the Date - May 5-6, 2026****Endurica**  
Get Durability Right®**COMMUNITY  
CONFERENCE**

— MAY 5-6 2026 —

ESCH-SUR-ALZETTE LUXEMBOURG

## DIMENSIONS OF **DURABILITY**



ELASTOMER CHARACTERIZATION • SIMULATION • SUSTAINABILITY

[Check out the Press Release](#)

### Major Release Provides Oxidation/Multiphysics Additions

## Endurica MP™

Temperature | Diffusion | Oxidation

[1 minute read] Endurica's latest software release includes major new functionality: an oxidative ageing model, a Marlow model hyperelastic law, and a "fatigue\_limit\_only" crack growth rate law for use in infinite life (ie safety factor) analyses. There are also improvements to the Abaqus and Marc pre/post plugins, and bug fixes for the UHYPER interface and the factor of safety summary output.

**Detailed changes**

- Add oxidation model that can compute consumption rates.
- Marlow hyperelastic model implementation.
- New "fatigue\_limit\_only" crack growth rate model for factor of safety calculations. This only allows energy release rate threshold to be specified.
- Allow oxygen concentration ... [READ MORE](#)

### Crack Growth and Fracture Testing in Polymers

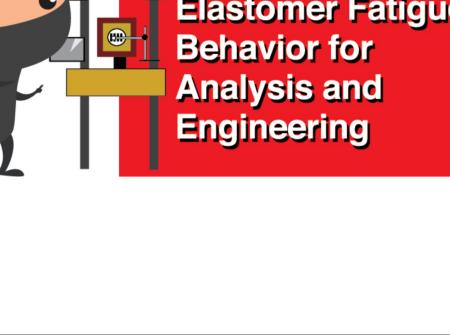


By Tom Ebbott [5 minute read]

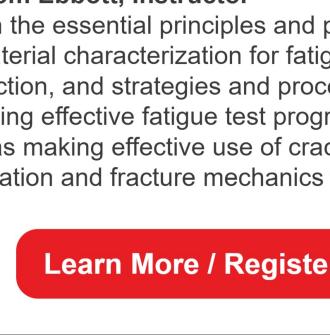
My PhD work at the University of Wisconsin was on crack growth in high density, high molecular weight polyethylene (HDHMWPE) used in natural gas distribution pipelines1. This semi-crystalline, thermoplastic material like many other plastics exhibits a yielding mechanism in addition to nonlinear viscoelastic effects which makes the material characterization and modeling aspect of the work very challenging. For fracture, the yielding mechanism creates a significant... [READ MORE](#)

### Endurica Welcomes Two New Team Members:

Zach Ebbott and Joe Doherty



Endurica LLC welcomes **Zach Ebbott** as Business Development and Operations Manager. Zach will work to expand Endurica's client base, especially with our Coesfeld instrument sales and is responsible for financial forecasting for both sales and cash flow. During a business internship with Endurica, Zach developed software and instrument maintenance plans which are benefiting our customers. He is a graduate of Regis University with a Bachelor of Science in Finance. While at Regis, Zach co-authored a paper entitled "Silicon Valley Bank: A Tale of Hubris, Risk, Forbearance, and Failure" – research on regulatory oversights that lead to the 2023 collapse of Silicon Valley Bank". This work is now used in undergraduate courses. He also served as the Regis University Student Government Association Chief Financial Officer, overseeing their annual budget of \$380,000 through an Excel spending tracker he developed.



**Joe Doherty** joins Endurica as Director of Sales and Customer Success. Joe brings more than 20 years of software, business solutions, services, and technology sales to the Endurica team. He has been responsible for global growth of Fortune 500 customers, taking on a trusted advisor role for many clients to earning multiple sales awards. Most recently, Joe was a Senior Client Executive with Dassault Systems, moving through their ranks in progressively expanding roles after their acquisition of MatrixOne in 2006. He joined MatrixOne in 2000 and was a key contributor to the 500%+ expansion of their client base. Joe began his professional career as an Applications Engineer with Freudenberg-NOK, supporting sales and Kaizen activities with OEM management and Freudenberg-NOK's quality, manufacturing, and engineering to proactively reduce costs and improve product quality. He earned his Master of Science, Manufacturing Management from Kettering University and his Bachelor of Science, Civil Environmental Engineering from The University of Michigan. He is currently serving as the Chairman of Powers Catholic High School Board of Trustees and is a founding member of 100MEN Club Detroit, contributing to the impact of over 30 local charities.

### WINNING ON DURABILITY

## TIRE MODEL BUILDING MADE EASY

WITH COREFORM CUBIT

coreform LIVE WEBINAR: **FRI JAN 16, 2026 at 10 am EST**

Featuring Dr. Karl Mars, Endurica, Founder &amp; President

Dr. Karl Mars

Independent Consultant

Endurica  
Get Durability Right®

Tire geometry is notoriously complex, and a real time sink for FEA teams. This tool promises to break the bottleneck.

[See Webinar Details / Register](#)

# GUMFERENCE

Advanced Testing  
of Soft Polymer Materials

5th February 2026

Organisers and Chairmen

8:00 AM CET

RADEK STOČEK

ERIC FUCHLER

REGISTER NOW - FREE OF CHARGE

[www.gumference.com](#)Tomas Bata University in Zlín  
Centre of Polymer SystemsLeibniz-Institut  
für Polymerforschung[Learn More About GUMFERENCE](#)

### 2026 Training Opportunities

Characterizing  
Elastomer Fatigue  
Behavior for  
Analysis and  
Engineering16-20 March 2026  
Learn the essential principles and practices  
of material characterization for fatigue life  
prediction, and effective fatigue test procedures as  
well as making effective use of crack  
nucleation and fracture mechanics tools.[Learn More / Register](#)

### Coesfeld Instrument Spotlight

## Heat Build-up Analyzer

Thermal Runaway Can Be Predicted - [Learn More](#)

# RUBBERNECKING

Rubbernecking is an interesting thing that makes us look twice.

Put a Rubberband on Your Phone

That is our top pick in this treasure trove of ideas to help us all doomscroll less this year.



Endurica LLC | 1219 West Main Cross, Suite 201 | Findlay, OH 45840 US

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