TA ElectroForce® Testing News

Volume 9 Number 3 March 2017

Newsletter At-A-Glance:

New! WinTest® 8.0 and DMA 7.1

Improved data acquisition, increased sampling rate, and TRIOS

Introducing WinTest 8.0 and DMA 7.1! Operating on Windows 10, WinTest 8.0 includes simplified data acquisition set-up and an increased maximum sampling rate of 10 kHz. In addition, we are introducing TuneIQ for torsion motors along with an increased range of rotation up to ±20 turns. DMA 7.1 now utilizes TRIOS, a powerful analysis software application, for plotting DMA results. TRIOS also provides the ability to perform plotting overlays, user-calculations, and advanced analysis including Time-Temperature Superposition (TTS).

Click here to learn more about what's new in WinTest 8.0 and DMA 7.1.

New! DuraPulse SGT Product Video

Trusted for pulsatile fatigue testing over billions of cycles

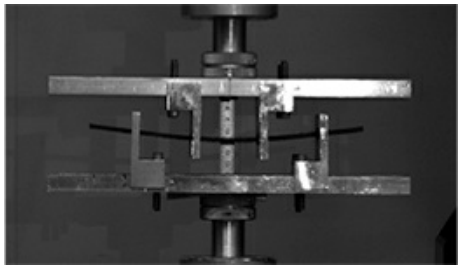
We are excited to unveil a new product video for the DuraPulse Stent/Graft Test (SGT) instrument. Launched last fall, the DuraPulse SGT incorporates a modular manifold design and accommodates stented devices ranging from 2 to 50 mm in diameter. In addition, a new user interface makes it even easier to set-up and run long-term pulsatile fatigue tests.

To watch the video, click here.

To visit the DuraPulse SGT webpage, click here.

Customer Highlight Fatigue Life Behavior of Carbon Fiber Reinforced Polymers

Exploring the impact of fully-reversed bending on changes in flexural modulus



Carbon fiber reinforced polymers (CFRP) are finding their way into an increasing number of engineering applications in a broad spectrum of industries. CFRPs are often used for products in which a high strength-to-weight ratio is desired. In many structural applications, CFRPs undergo repeated loading and unloading cycles that cause fatigue damage over time. In order to better predict the complex nature of CFRP fatigue, Ali Amiri and colleagues at North Dakota State University and the University of North Dakota have recently published research that proposes a new model for flexural modulus loss of CFRP samples in bending.

To access the publication abstract from the Journal of Composite Materials, click here.

Customer Highlight Understanding Cartilage Surface Wear Mechanisms After an Injury

Research aims to improve long-term outcomes for post-traumatic osteoarthritis

Approximately 12% of the US population (5.6 million people) suffers from post-traumatic osteoarthritis; osteoarthritis that typically results from an injury to one of the joints in the body. The injury leads to tissue damage and changing body mechanics which can leads to increased wear of the cartilage surfaces within the joint. Dr. Gregory Jay and collaborators at Brown University, University of Calgary, University of Vermont, and Chapman University explore the role of lubricin (PRG4), a lubricating protein, on the friction coefficient of cartilage in the presence of an inflammation inducing protein in new research published in the Journal of Orthopaedic Research.

To access the publication abstract from the Journal of Orthopaedic Research website, click here.

Promotions

Rubber Testing Buy One, Get One

For a limited time, when you purchase an RPA elite or RPA flex rubber process analyzer, you can choose either a Discovery DSC or Discovery TGA for **FREE!** Contact us for more details on this exciting offer.

More Information

2017 AMG Program

TA will add **$20,000** to the value of any grant for the purchase of select load frame systems, tissue engineering instruments, or material and tissue characterization instruments.

More Information

Upcoming Events

MedTec Europe

April 4 5
Stuttgart, Germany
Booth 1D29

SFB Society for Biomaterials

April 5 8
Minneapolis, MN
Booth 32