

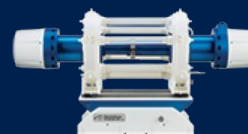
Newsletter At-A-Glance:

- TA ElectroForce at TERMIS Americas 2016
- Customer Research Highlight - Microscale Fatigue Behavior of 316L Stainless Steel
- Customer Research Highlight - Physiologically Relevant Fatigue Loading of Cartilage
- TA ElectroForce Receives A2LA Certification for ISO 17025:2005

CURRENT PROMOTIONS



Get **FREE** accessories and **FREE** DMA software when you buy any 3200, 3300, or 3500 test frame.



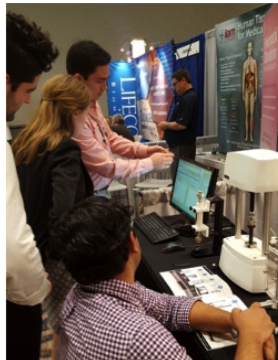
Get a **FREE** DuraPulse Heart Valve Durability Test Instrument or 200N Single Motor Test Bench when you buy a new DuraPulse Stent-Graft Tester (SGT)

[More Info](#)

TA ElectroForce at TERMIS AM 2016

Tissue engineering and regenerative medicine on display in San Diego

TA ElectroForce recently had the opportunity to interact with leading researchers in the area of tissue engineering and regenerative medicine at the 2016 TERMIS AM conference held in San Diego, CA. During the event we were able to introduce our 3D tissue construct bioreactors to a number of attendees. We were also able to demonstrate the capabilities and benefits of our ElectroForce test instruments to characterize new biomaterials that are being used as scaffolds for tissue engineered constructs.



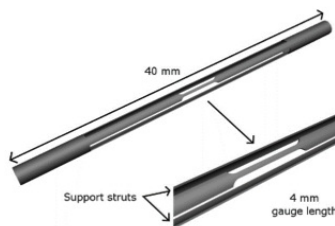
To learn more about TERMIS, [click here](#).

For more information about our BioDynamic test instruments for tissue engineering applications, download our [brochure](#).

Customer Research Highlight - Microscale Fatigue Testing of 316L Stainless Steel

Do size effects influence the fatigue behavior of stainless steel struts?

A study that was recently published in the International Journal of Fatigue aims to understand the impact of size effects on the fatigue behavior of micron-sized 316L stainless steel struts - sizing that is similar to the scale employed in vascular stents. The research, which comes out of the National University of Ireland Galway, included cyclically loading (tension-tension) four different sized samples in force control at a frequency of 60 Hz utilizing an ElectroForce 3200 test instrument.



To access the publication abstract and paper, [click here](#).

Academic Matching Grant Program



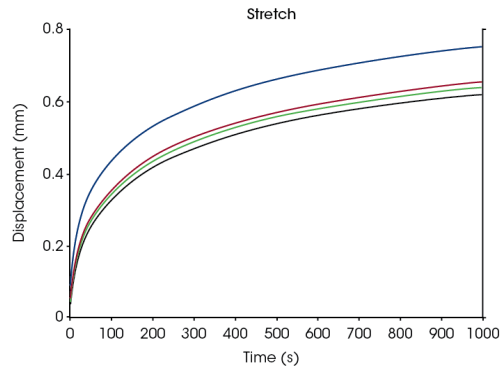
TA will add \$20,000 to the value of any grant for the purchase of a 3100, 3200, 3300, 5100, 5200, or Planar Biaxial System.

[More Info](#)

Customer Research Highlight - Physiologically Relevant Fatigue Loading of Cartilage

Understanding the mechanisms that contribute to the onset of osteoarthritis

Osteoarthritis (OA), often called "wear and tear" arthritis, is the most common chronic condition of the joints and affects approximately 14% of adults over 25 years old. Despite its prevalence, there continues to be limited understanding of the mechanisms involved in early stages of OA. Dr. David Pierce, along with colleagues from the University of Connecticut, and collaborators from the University of Colorado in Boulder, recently had research published in the Journal of the Mechanical Behavior of Biomedical Materials, in which they explore the mechanical transition from compaction to fatigue of healthy cartilage.



(Data re-drawn for clarity)

To access the publication abstract and paper, [click here](#).

To learn more about Dr. Pierce's research, visit his lab page [here](#).

A2LA Certified! - TA ElectroForce® Receives A2LA Certification for ISO 17025:2005

If you haven't already heard, ElectroForce proudly announced last month that we have received our A2LA accreditation in accordance with the recognized International Standard *ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories*. Having this accreditation will give all ElectroForce users a higher level of confidence in new calibration reports. It also shows our sincere dedication to quality service and an ongoing commitment to provide accurate, repeatable and traceable calibrations on all new and existing ElectroForce test systems.



To see a copy of our accreditation certification, [click here](#).

Contact Us to inquire about receiving a quote to calibrate your ElectroForce systems and receive your A2LA accredited calibration reports.

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.

UPCOMING CONFERENCES

Japan Society of
Mechanical
Engineers 29th
Bio-Engineering
Lecture

January 19 - 20, 2017
Nagoya, Japan

MD&M West
February 9 - 11, 2017
Anaheim, CA

