



Datapoint

Reporting on advancements in material testing and data management

Volume 31.1

Applus+ DatapointLabs Marks 30 Years of Delivering Material Properties Data for CAE



Thanks to the support of our clients and partners, Applus+ DatapointLabs marks the 30th anniversary of our founding this year. Since our beginning, we have maintained our commitment to providing the material properties required for new product development, CAE simulation, and R&D. We have continuously pushed boundaries to expand our capabilities in testing technology and methods, as well as in the types of materials tested. Today

we serve a global clientele of more than 2,000 companies in 50 countries. We partner with more than 20 software providers to support more than 30 simulation codes with *TestPaks*[®] to provide load-and-go material properties and formatted material input cards for CAE and FEA. Our seasoned, expert technical team operates ISO 17025 and Nadcap accredited laboratories to test virtually any materials, including plastics, composites, metals, foams, rubbers, additive materials, films, adhesives, and more.

Research on Material Model Calibration Strategies to Be Presented at NWC2025

Applus+ DatapointLabs representatives, Dr. Daniel Campos Murcia and Brian Croop, will present their work at [NAFEMS World Congress 2025](#), the largest independent, international conference dedicated to engineering simulation. The event takes place May 19-22, 2025, in Salzburg, Austria.

Comparison of Calibration Strategies for Material Models of Polymers, Foam, and Composite Materials

By Dr. Daniel Campos Murcia and Brian Croop,
Applus+ DatapointLabs

Abstract: The accurate calibration of materials models is crucial for simulating the behavior of materials across various industries, including automotive, aerospace, and consumer goods. With the increasing complexity of modern materials, particularly polymers, foams, and composite materials, developing reliable and efficient calibration strategies is more important than ever. This paper presents a comprehensive comparative analysis of calibration strategies for material models applied to these materials, focusing on the challenges and best practices for each material class.

(more Abstract)

2025 Events

- Meet our representative at [Plastics industry of the future: innovations & eco-responsibility](#), February 4-5, 2025; Alencon, France.
- Meet our representatives at [OzenCon 2025 Ansys Simulation Conference](#), February 20, 2025; Mountain View, CA, USA. Applus+ DatapointLabs is a Gold Sponsor.
- Meet our representative at [SPE ANTEC 2025](#), March 3-6, 2025; Philadelphia, PA, USA.
- Meet our representative at [JEC World 2025](#), March 4-6, 2025; Paris, France.
- Meet our representative at [Eco-responsible Colours, Materials & Finishes](#), March 19-20, 2025; Troyes, France.
- Meet our representative at [Smart Polymers Congress 2025](#), March 25, 2025; Paris, France.
- Meet our representative at [Hannover Messe 2025](#), March 31 – April 4, 2025; Hanover, Germany.
- Meet our representative at [SIA Simulation Day](#), April 2-3, 2025; Paris, France.
- Find us in exhibition space 15 at [CARHS Automotive CAE Grand Challenge](#), April 8-9, 2025; Hanau, Germany. Applus+ DatapointLabs is a Silver Sponsor.
- Meet our representative at [SIMULIA Regional User Meeting – EuroCentral 2025](#), May 5-7, 2025; Bamberg, Germany.

(more 2025 Events)

(Abstract, continued)

The study explores the calibration and validation of three specific models: the Fu Chang model for foams, the SAMP model for polymers, and composite damage models for continuous fiber-reinforced thermoplastic composites (CFRTPs). The research integrates experimental testing campaigns, such as tensile, shear, compression, and impact tests, under varying strain rates and environmental conditions, to collect detailed data that are essential for effective model fitting. ([more](#))

ISO 17025 Reccreditation Audit Completed

Applus+ DatapointLabs has successfully renewed its accreditation for ISO 17025 following an audit completed by A2LA in January 2025. Find details of the scope and current certificates for our ISO 17025 and Nadcap accreditations on our [Quality System](#) page.



ISO/IEC 17025:2017



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ACCREDITED
Non Metallic Materials Testing
Materials Testing Laboratories

Quality Manager Retires

Will Liguori, Applus+ DatapointLabs' long-time Quality Manager, celebrated his retirement after 21 years of service.

Will joined DatapointLabs in October 2003 and quietly made his influence felt throughout the company. He coordinated our accreditation audits, managed receiving and order scheduling, and established and maintained our rigorous quality system.

Peter Garson has now taken on the Quality Manager role in addition to his laboratory responsibilities as Aerospace Testing Manager.

(2025 Events, continued)

- Meet our representative at [CADFEM Conference Hanover 2025](#), May 7, 2025; Hanover, Germany.
- Meet our representatives at the [NAFEMS World Congress](#), May 19-22, 2025; Salzburg, Austria. Attend our technical presentation on *Comparison of Calibration Strategies for Material Models of Polymers, Foam, and Composite Materials*.
- Meet our representative at [SIMULIA Regional User Meeting – EuroNorth 2025](#), June 3-4, 2025; Manchester, UK.
- Meet our representative at [Design & Engineering Expo](#), June 4-5, 2025; NEC Birmingham, UK.
- Meet our representative at [SPIN – Sports • Polymers • Innovation](#), June 4-5, 2025; Vichy, France.
- Meet our representative on June 5 at [Club Utilisateurs Moldflow 2025 \(Aplimit\)](#), June 4-5, 2025; Lyon, France.
- Talk with us at the [OpenRadioss Users' Day 2025](#), June 11, 2025; hosted by Chalmers University of Technology, Gothenburg, Sweden. Look for Applus+ DatapointLabs among the event Sponsors and attend our overview presentation.
- Meet our representative at [Paris Air Show](#), June 16-22, 2025; Paris, France.
- Meet our representative at [NeMMo 2025 – NEw Materials for future MObility](#), July 2-3, 2025; Rennes, France. Look for Applus+ DatapointLabs among the exhibitors.