



COLLEGE OF NATURAL
RESOURCES AND ENVIRONMENT
SUSTAINABLE BIOMATERIALS
VIRGINIA TECH

CENTER FOR PACKAGING AND UNIT LOAD DESIGN

Advanced Packaging Dynamics: MEASUREMENTS AND SIMULATIONS

SEPTEMBER 10TH - 12TH, 2024

Short Course Summary:

The Advanced Packaging Dynamics short course is a 2.5-day course held in conjunction with the Lansmont Corporation. This course will be delivered in-person due to its extensive hands-on elements. Attendees will learn the principles of shock, vibration, field data collection practices, and sensor selection. Laboratory simulations will be conducted around how to collect field data and how to use the collected information to optimize packaging and eliminate damages.

By the end of the course, attendees will be able to instrument different transportation modes to collect vibration data, instrument decoy packages to collect distribution shock data, collect and analyze collected data, and set up laboratory simulations to test new designs under the same conditions realized through the data collection processes.



Course Partner:



Lansmont

lansmont.com

WHO SHOULD ATTEND?

Packaging design is an integral part of the material handling system. Packaging engineers, quality engineers, packaging sales, packaging suppliers, designers, and other professionals responsible for packaging materials purchasing, as well as corrugated box designers will all benefit from an understanding of Advanced Packaging Dynamics.

TOPICS COVERED:

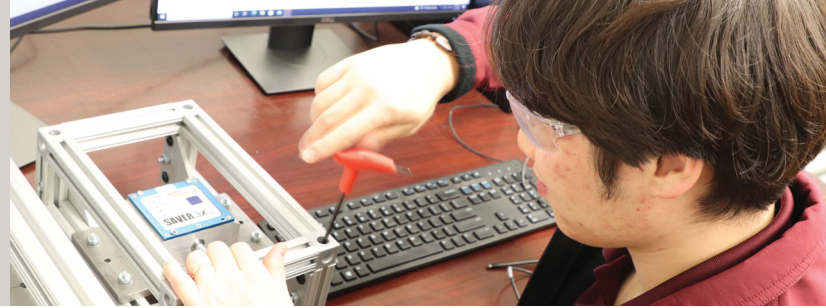
- Fundamentals of vibration and shock.
- Accelerometer types and the effects of sensor selection.
- Best practices for collecting field data.
- How to instrument different transportation modes for the collection of vibration data.
- How to set up instrumented decoy packages in order to characterize the e-commerce environment.
- How to conduct vibration and shock data analysis.
- How to collect and analyze low-acceleration and long-duration shock events.
- Laboratory simulations of shock and vibration events.



WANT TO KNOW MORE?

Contact Dr. Laszlo Horvath, Director and Associate Professor
unitload@vt.edu | 540-231-7107

unitload.vt.edu



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INSTRUCTORS:

DR. LASZLO HORVATH

Associate Professor, Virginia Tech
Director, Center for Packaging and Unit Load Design

In 2010, Dr. Horvath received his Ph.D. in Forest Biomaterials from NC State. He is one of the few packaging professionals who have received the “ISTA CPLP - Professional Level” certification. He is the chair of the ASTM D1185 working group, a U.S. delegate of TC 51, and a voting member of ANSI MH1 and MH 10 committees.



MR. ERIC JONESON

Vice President of Technology, Lansmont Corp

Joneson holds a B.S. in Packaging from Michigan State University and has extended experience in areas of transportation packaging, supply chain dynamics measurement and analysis and laboratory testing applications. He is a member of both IAPRI and ISTA’s Board of Directors, as well as Lansmont’s Delegate to the ISTA Advocate Council. He participates and contributes within ASTM Committee D10 on Packaging. Joneson represents Lansmont, a PPT Group brand, as they support global research initiatives through various packaging research institutes and universities.



COST:

This course is ONLY being offered for in-person attendance. All attendees will be expected to participate in 2.5 days of lectures, laboratory exercises, and coursework. Active participation in assignments and discussions will be expected. Breakfast will be served daily along with lunch breaks and multiple snack breaks. Participants will receive a certificate of completion after successfully finishing the course.

Public Attendee (In-Person):

\$1,456.00

CPULD Member (50% discount):

\$728.00

Lansmont Customer (20% discount):

\$1,164.80

TIME:

Tuesday, Sept. 10th, 8:00am - 5:00pm

Wednesday, Sept. 11th, 8:00am - 5:00pm

Thursday, Sept. 12th, 8:00am - 12:00pm

LOCATION:

Brooks Forest Products Center
Virginia Tech, MC 0503
1650 Research Center Drive
Blacksburg, VA 24061

TO REGISTER:

Visit: unitload.vt.edu/apd

Or call: Erich Sawyer at 540-231-4084



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