Registration:

$400 for members of Center for Packaging and Unit Load Design, $700 for ISTA/ MHI/ Pallet Profile Subscribers / Best Load or Best Pallet Licensees, $800 Non-members. Early registration ends July 24th, 2020. After then, add $50.00 to each rate.

You can register for this short course by:

- Calling: Erich Sawyer at 540-231-4084
- [https://www.unitload.vt.edu/education/continuing-education/](https://www.unitload.vt.edu/education/continuing-education/) and clicking the registration link for the Unit Load Design and Performance short course.

Location:

This course is being held ONLINE and consists of four LIVE afternoon sessions.

- August 24: 1pm-5pm.
- August 25: 1pm-5pm.
- August 26: 1pm-4pm.
- August 27: 1pm-5pm.
"How to Utilize Unit Load Design"

Who should attend?

Unit Load Design is a revolutionary, systems-based design approach that significantly reduces the cost of distributing products to consumers by understanding how pallets, packaged products, and handling equipment, mechanically interact. Unit Load Design is a new and valuable service that pallet, packaging, and handling equipment suppliers can offer their customers. Any designers, manufacturers, and suppliers, as well as the users of these components, will benefit from attending this short course!

Instructors for this course:

Dr. Laszlo Horvath is the Director of the Center for Packaging and Unit Load Design (CPULD), in the Department of Sustainable Biomaterials, at Virginia Tech. He also teaches package engineering and pallet design to both undergraduate and graduate students. His research areas include the analysis of interactions between the components of unit loads and the development of bio-based and sustainable packaging materials. Dr. Horvath is one of the only 50 ISTA Certified CPLP professionals, and he is a member of various ASTM, ANSI, and ISTA committees.

Dr. Marshall “Mark” White has been a member of the faculty at Virginia Tech since 1975. His research through the pallet and unit load design lab focused on unit load materials handling efficiency. As a result of his research expertise, Dr. White has written many national and international standards for pallets and containers. In his role as CEO of White & Company, his consulting specialty is in packaging and pallet design solutions to optimize supply chain performance.

What is the short course about?

This ONLINE 4-day short course will teach techniques that can be used to save money on packaging materials when designing pallets and packages by considering the interactions between all of the components of unit loads. The course will use a state-of-the-art unit load design software called “Best Load” to better demonstrate the steps of unit load design process. You will also be taken on a tour of a working, state of the art, packaging and pallet testing laboratory!

Short Course Agenda

Day 1: 1:00pm-5:00pm
- Principles of systems-based unit load design
- Unit load material handling audits
- Pallet terminology, materials, recycling, and fasteners.
- Wood pallet design exercise using Best Pallet software

Day 2: 1:00pm-5:00pm
- Principles and industrial packaging design including: design of corrugated boxes and specifications of drums, pails, bags, and reusable plastic containers
- Unit load interactions including: load bridging, effect of pallet on packages, effect of friction on stability, and effect of pallet design on unit load vibrations

Day 3: 1:00pm-4:00pm
- Unit Load Design Practice using “Best Load”
- Field Audit Examples and Case Studies

Day 4: 1:00pm-5:00pm
- Principles of unit load stability
- Stretch film and strapping properties and application
- Assessment and testing for unit load stability
- Current rules and regulations
- Laboratory demonstrations