Center for Excellence in Logistics and Distribution

CELDI III

CELDi Member Organizations

Air Liquide Inc.

Arkansas Electric Cooperative Corporation

Bayer Crop Science

Bayer Health Care

B&W Pantex

City of San Pedro, MX

CODESIN

Cook Technologies, Inc.

Entero Technologies

F.L. Smidth, Inc.

Freight Pipeline Company

Innovative Scheduling

Invistics Corporation

Leggett & Platt

Lockheed Martin Aircraft & Logistics Center

Mallinckrodt Baker Chemical Company

Medical Center Hospital, Odessa, Tx

Medline Industries, Inc.

MHI Consulting, LLC

Missouri Department of Transportation

NIOSH Center for Construction Safety

Oklahoma Department of Transportation

Red River Army Depot

Sam's Club

The Boeing Company

The Learning Chameleon, Inc.

U.S. Army Defense Ammunition Center

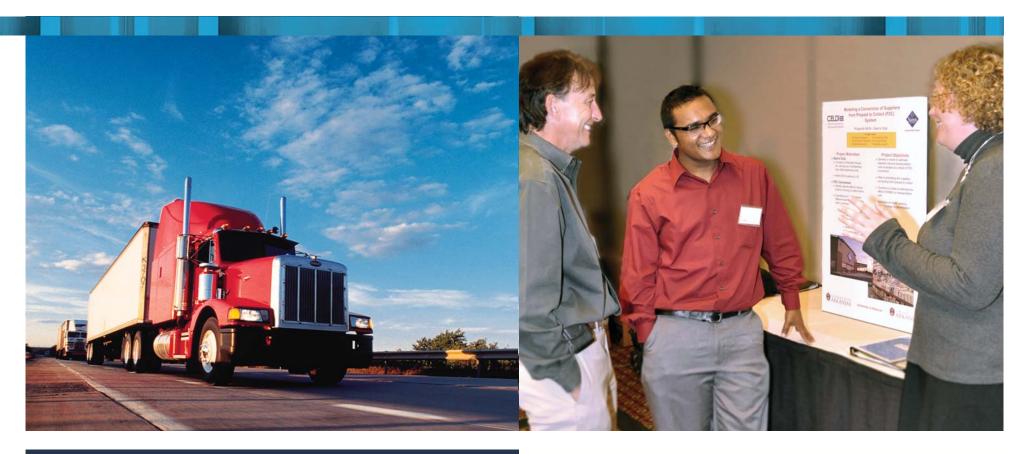
UPS - Supply Chain Solutions

Walmart Stores, Inc

Center for Excellence in Logistics and Distribution



A National Science Foundation sponsored Industry/University Cooperative Research Center (I/UCRC)



our mission:

Solving real problems that achieve bottom-line impact

Graduating students with real-world project experience

Producing cutting-edge research published in leading journals

Sharing research results amongst member organizations

to leverage intellectual and monetary capital



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Enabling member organizations to achieve logistics and distribution excellence by delivering meaningful,

innovative and implementable solutions that provide a return on investment



Clemson University
Oklahoma State University
Texas Tech University
University of Arkansas
UC Berkeley
University of Missouri
University of Oklahoma
Virginia Tech

Arizona State University

The Center for Excellence in Logistics and Distribution (CELDi) is a university-based enterprise providing innovative solutions for logistics and distribution excellence. As an applied research and education consortium, CELDi is a partnership between the National Science Foundation (NSF), nine major research universities and more than 30 member organizations in commercial, military and government sectors of the economy. Research endeavors are driven and sponsored by the member organizations that specialize in distribution, transportation, manufacturing, information technology, and software solutions.



Member Benefits

Member-specified project that utilizes the expertise and resources of a university team

Access to top students enables recruiting the best-prepared logistics graduates

Shared fundamental research results from other CELDi academic partners provides tremendous leveraging of each member's research dollars, for example, royalty-free license access to over \$5M in previous research

Receive generalized CELDi work products such as software developed by other CELDi academic partners through pooled research funds

Membership in the CELDi Industrial Advisory Board (IAB) provides opportunity to interact with other faculty and industrial leaders in logistics, distribution, and supply chain, and provides direction to generalized CELDi work products



CELDI III

What do our members say about the value of their CELDi membership?

"We feel we get a great deal of value for the dollars we spend with CELDi."

"We are excited to have high-quality students learning about and working on problems in our industry. This creates a pool of potential future employees."

"In a recent review of the CELDi website, I found approximately 50 projects listed of interest to our company. I found a dozen with specific application to our business."

"This is what CELDi is all about: Exploring new ideas, solving problems, and most importantly, coming up with solutions and applying them in the field."

Sample Industry Projects

Logistics Systems Analysis and Design Logistics Network Design and Consolidation Integrated Winter Road Maintenance Logistics Adaptive Logistics Network Optimization Distribution Security Supply Chain Modeling

Dynamic Supplier Network Partnerships Spare Parts Inventory Management

Healthcare Supply Chain Modeling

Evaluation of Intermittent Demand Forecasting Techniques

Material Flow Design & Improvement

Staging Needs in a Cross-Docking Environment

Examination of "Next Generation" Material Handling Solutions Production Scheduling in a Lean Remanufacturing Environment Intelligent Systems

Logistics of Automatic Identification Evaluation of RFID in the Rail Industry

Radio Frequency & Supply Chain Logistics

















Our Partnership Success Stories

AIR LIQUIDE-Bulk Tank Allocation Project Improves Asset Utilization Faced with a challenging resource allocation project, Air Liquide assembled an international team that developed a resources. This CELDi project has already achieved storage investment and distribution costs.

WALMART- Networking Merchandise Logistics Partnering with CELDi faculty and opportunities for Walmart to reallocate distribution manage how it uses personnel hours. CELDi

MEDICAL CENTER HOSPITAL -Improving the Flow of Discharged Patients CELDi faculty and students at Texas Tech University teamed with associates at the patient flow and reduce discharge times. The CELDi project has resulted in savings of \$250,000 for the hospital in the initial phase and the CELDi team is

UNITED PARCEL SERVICE - Safety Training System for Generation Y Virginia Tech's CELDi faculty and students safety training system for generation Y delivery computer-based training system designed for today's generation Y drivers, UPS delivers new facilities using the system, now trademarked as the UPS INTEGRAD™ System.

SAM'S CLUB – Inventory Improvements with Logistics Changes Overcoming the seemingly conflicting goals of reduced inventory and less stock outs, Sam's Club teamed with University of their logistics system for ways to improve club performance levels. The team recommended changes to the logistics system that postponed accurate information. Significant savings in club