

Center Specs

Center for Engineering Logistics and Distribution (CELDi)

Lead: University of Arkansas Russell D. Meller, Director

Academic Partners:

Clemson University, Bill Ferrell
Lehigh University, Emory Zimmers
Oklahoma State University, Ricki Ingalls
Texas Tech University, Timothy Matis
University of Oklahoma, Mustafa Pulat
University of Louisville, Sunderesh Heragu
with Executive Director Don Price (University of Florida)
and Center Evaluator Otto Doering (Purdue)

Our Mission at CELDi is the provision of integrated solutions to logistics problems through modeling, analysis and intelligent-systems technologies.

Overview of Research Activities

CELDi has four main research thrusts:

- Intelligent Systems
- Logistics System Analysis and Design
- Material Flow Design & Improvement
- Supply Chain Modeling

Current research projects:

OSU/UA TIE	A TIE Research Program on E-Design for Supply Chain
CL07-LOCK	Improvements in Inventory and Forecasting Analysis
TT07-BWXT	Information Based Reengineering of Tooling Operations at BWXT/Pantex
LH07-OSKTP	Adaptive Logistics and Inventory Control
UA07-SAMS	Improved Retail Logistics Inventory
UA07-WM	Bin Locating System
LH07-KTP	A Systems Approach for the Factory Logistics, Distr., and Assembly of a Modular Product
UL07-MTRO	A Simulation-Based Tool for Workforce Planning at Louisville MetroSafe
UL07-EMCN	Quantifying The Costs and Benefits of Product Variety on Key Performance Measures
UL07-FAPH	Software for Estimating Key Performance Measures in Manufacturing and Distribution Systems
UA07-RRAD	Assessing Change Indicators in Activity, Equipment and Inventory for Automated Storage Facility
LH07-FMI	Stochastic Model for Supplier Selection and Order Allocation: The Portfolio Approach
LH07-DSN	Distribution and Installation Networks Utilizing Advanced Training and Logistics Support Techniques
CL07-SPWR	LSS Dashboard Tool
CL07-AERO	Commercial Space Crew Rest Requirements
OU08-DAC	The Modular Pallet System
OSU/OU06-07-OTC	Freight Movement Model Development for Oklahoma, Phase V
OU07-TSM/DAC	Multi-Item Load Building Tool for Containers
OSU07-DAC	Photocatalytic Degradation of Trinitrotoluene
OU07-DAC3D	Weight Estimator Database Driven 3D Modeler
CDP07-UA	Center-Designated Project: An Intermittent Demand Forecasting Tool
CDP07-UL	Center-Designated Project: Multi-Objective Decision Support System

Other Areas of Interest for Collaboration

Technologies that are the focal points of other I/UCRCs that can have a direct impact on logistics and distribution. For example, but not limited to, RFID, sensors, geographic information systems, green technologies, etc.