COLUMBUS STATE
COMMUNITY COLLEGE

Logistics Engineering Technology

Jeremy Banta and Chris Dennis

YOUR CAREER STARTS HERE

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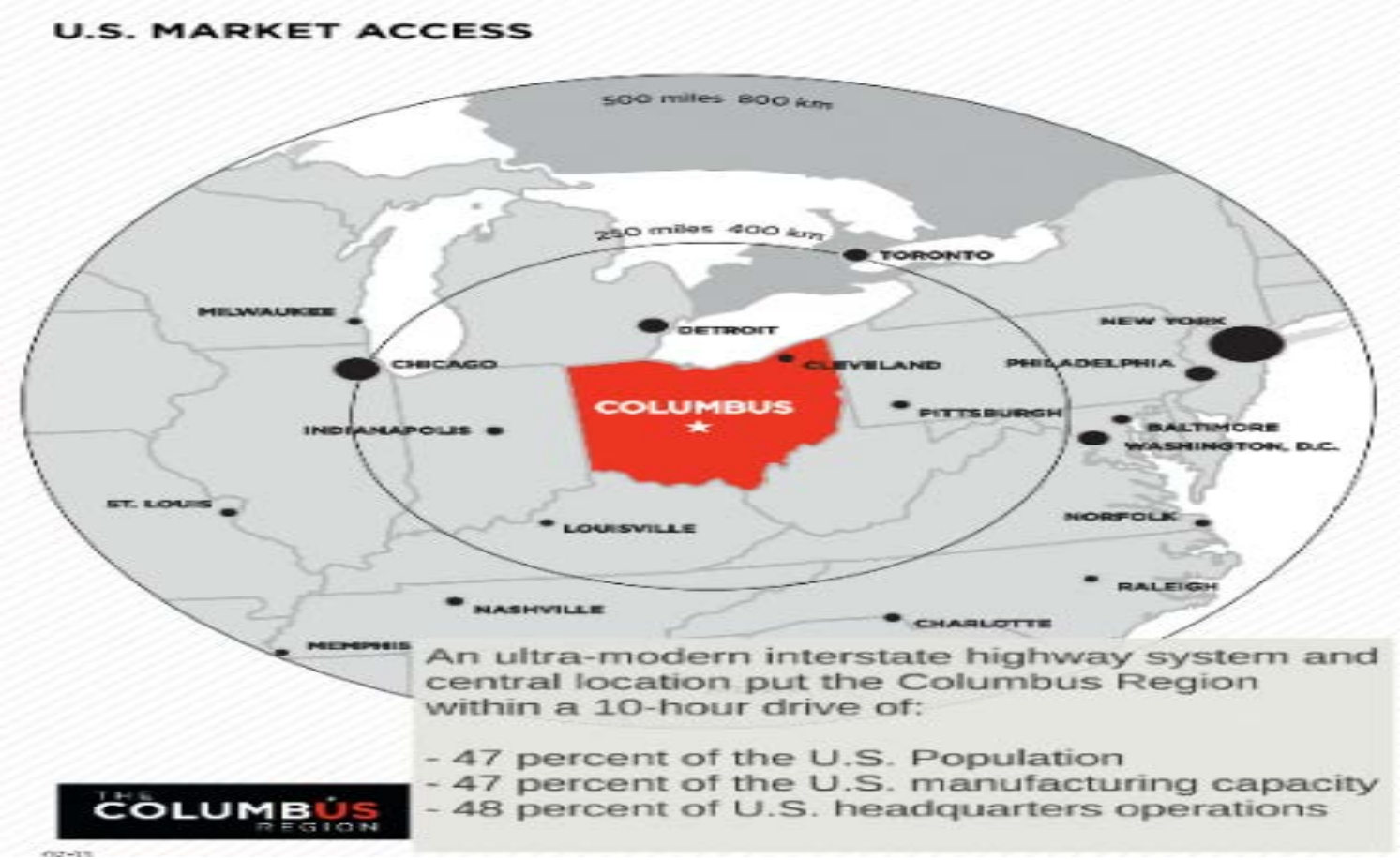
What is Logistics?

- **Council of Supply Chain Management Professionals (CSCMP) -**
  - Logistics is the part of the supply chain process that plans, implements, and controls the efficient and effective forward and reverse flow and storage of goods, services, and related information between the point of origin and the point of consumption in order to meet “customer requirements.”

Why is Logistics Important in Columbus?

Why Columbus and Central Ohio?



The Top 15
Logistics
Companies in
Columbus Employ
Over 32,000
People
FedEx
ANN TAYLOR
OLD NAVY
BANANA REPUBLIC
BIG LOTS!
TARGET
lululemon athletica
Abercrombie & Fitch
GAP
ups
La Senza
Justice
Eddie Bauer
zulily
amazon
Bath & Body Works
PINK
VICTORIA'S SECRET
ODW Logistics
thirty-one
Walmart
CardinalHealth™
Lbrands
VICTORIA'S SECRET
LANE BRYANT
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DSW
DESIGNER SHOE WAREHOUSE®

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Ohio asked for LET

- Central Ohio is home to one of the nation's largest and fastest-growing supply chain sectors.
- The supply chain sector accounts for more than 9 percent of all jobs in Central Ohio.
- Median Career Earnings between $50,000-$70,000 a year.

Breakthrough STEM Curriculum

- Developed in partnership with over 20 Central Ohio employers.
- Prepares students for careers as supply chain managers, industrial engineering technicians, systems analysts, and operations specialists.-
- Hybrid model delivers instruction through both in-person and online formats.
- Interactive laboratory experiences focusing on supply chain technologies.
- Embedded internship furthers students' problem-solving skills and employment opportunities.

LET Year One

First Semester	15.0
SCM1100 - Supply Chain Mgmt Principles	3.0
ENGL1100 - Composition I	3.0
MATH1111 - Discrete Mathematics for Computing	3.0
BOA1102 - Excel I	2.0
ESSH1101 - Intro to Environ Science, Safety, Health	3.0
COLS1100 - First Year Experience Seminar	1.0

Second Semester	17.0
CSCI1103 - Intro to Programming Logic	3.0
SCM2111 - Inventory Management	3.0
ENGT1200 - Intro Industrial & Systems Engineering	3.0
BOA1172 - Excel II	2.0

LET Year Two

Fourth Semester	16.0
ENGT1300 - Intro Electric Motors, Controls, PLC's	4.0
ACCT1212 - Managerial Accounting	3.0
SCM1501 - IT in Logistics	3.0
SCM2110 - Warehouse Management	4.0
ITST1102 - Industrial Network Communications	2.0

Fifth Semester	11.0
EET2235 - Data Acquisition Systems	3.0
SCM2802 - SCM Seminar	1.0
SCM2902 - SCM Practicum	1.0
SCM2601 - Performance Mgmt SCM Managers	3.0
BMGT2250 - Project Management Principles	3.0

What Careers Exist in Logistics Engineering Technology?

- Graduates of the program can expect to work in diverse roles in logistics and manufacturing settings. Our graduates will be able to excel in roles as:
- Logistics Engineering Technicians
- Supply Chain Managers
- Warehouse & Distribution Managers
- Industrial Engineering Technicians
- Operations Analysts

CSCC Degrees and Certifications

- International Commerce Certificate
- Supply Chain Management Certificate
- Supply Chain Management AAS – International Commerce Major
- Supply Chain Management AAS
- Logistics Engineering Technology

Collaboration of Midwest Professionals for Logistics Engineering Technology Education (COMPLETE)

Funding Source	National Science Foundation - ATE
Project PI	Jeremy Banta, PI Chris Dennis, Co-PI
Partner Institutions	Sinclair College Oakton Community College
Performance Period	May 1, 2021-April 30, 2024

Project Goal

Expand career pathways for logistics engineering technicians to support the increasingly complex technology needs of the supply chain sector.

Project Deliverable #1

- **Expanded Logistics Engineering Technology (LET) Curriculum (led by Columbus State)**
  - Create two technology-focused threads to expand in technician education
  - Pilot and refine LET curriculum framework for replication at other institutions
  - Adapt and pilot LET curriculum in partner regions

Project Deliverable #2

- **Innovation network that focuses on emerging technologies in Logistics (led by Columbus State, Sinclair, Oakton)**
  - Establish the LET innovation network for each region
  - Engage resource partners to validate current demands and future trends
  - Collaborate with industry to build the value of certifications and LET program content
  - Review evolving software in the industry and explore integration into curriculum

O·SCAN
Ohio Supply Chain Academic Network

NSF

The Ohio Supply Chain Academic Network
is a collaboration between the supply chain industry and higher education.

O·SCAN promotes the value of supply chain education
and advances the field by integrating emerging technologies
from the logistics industry into academic curricula.

O·SCAN MEMBERS:

Ohio Supply Chain Academic Network

A deliverable on a National Science Foundation Grant regarding the development of an "academic network" led to the creation of the Ohio Supply Chain Academic Network.

Faculty from *Columbus State Community College* and *The Ohio State University* collaborated to develop the organization, create its mission, and recruit its members.

THE OHIO STATE UNIVERSITY
FISHER COLLEGE OF BUSINESS

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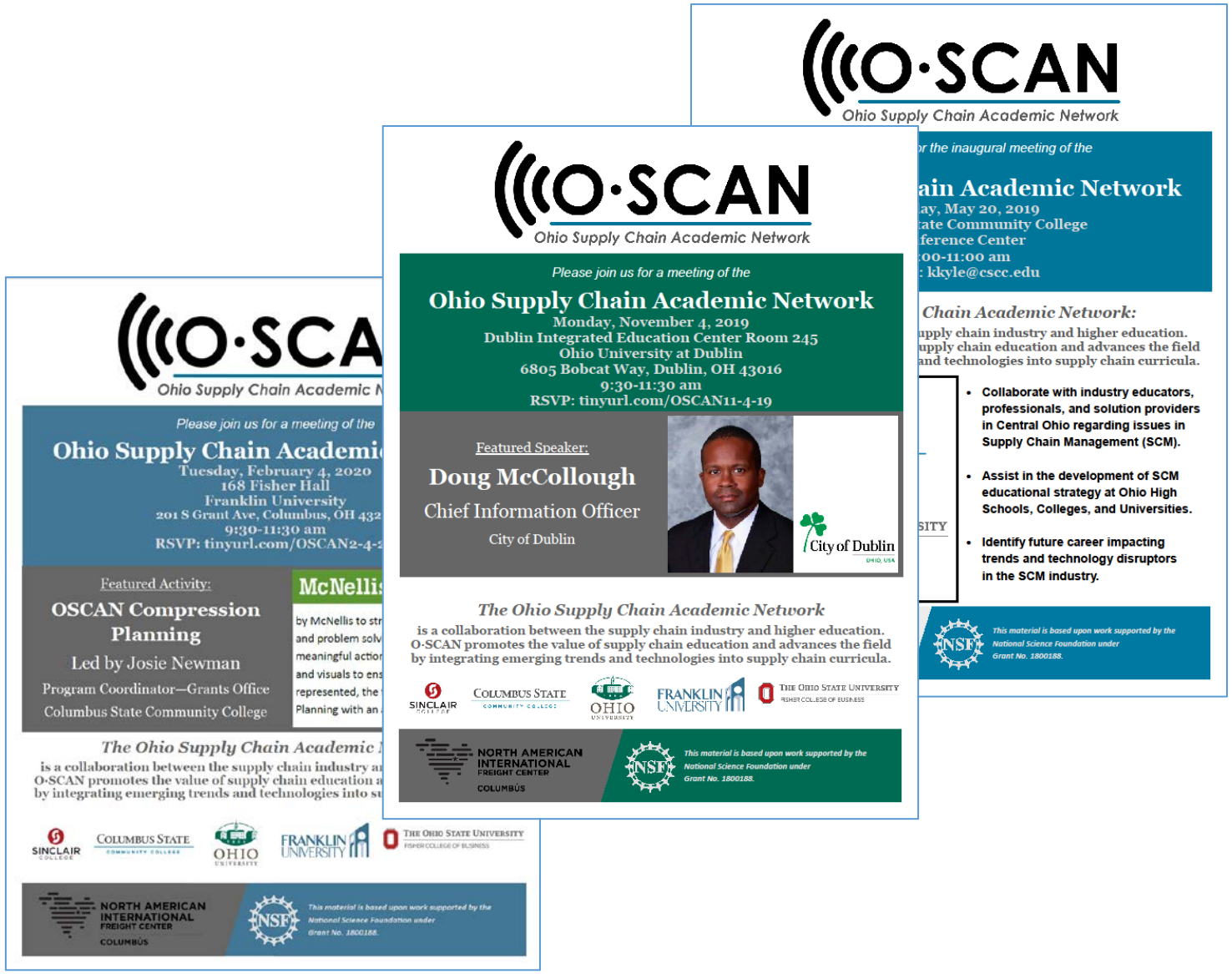

Thank you for joining us! This Session Will Begin Shortly.

Career Conversation

Logistics and Supply Chain Management

Featuring

Tom Clements, Supply Chain Advisor, **CBUSRetail.org**
Brandon Shook, Supply Chain Planning and Analytics Manager, **L Brands**
Melinda Hart, Industrial Engineer, **Fanatics Inc.**
Nathan Poore Jr., Field Transportation Lead, **Amazon**

Proudly supported by:

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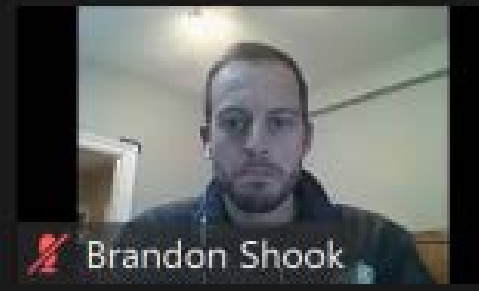

Project Deliverable #3

- **Professional development initiative for high school and college faculty to learn about LET careers (led by Oakton)**
  - Create professional development instruction materials to educate faculty about LET
  - Plan faculty development curriculum
  - Disseminate faculty curriculum to introduce LET coursework and pathway

Project Deliverable #4

- **Protocol for returning learner outreach and use of prior learning assessment (led by Sinclair)**
  - Design prior learning assessment (PLA) protocol and determine assessments
  - Conduct outreach to veteran populations and establish model for military service PLA
  - Expand the use of PLA to adult learners who are dislocated, underemployed, or transitioning from other careers

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Questions About Our Programs:

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