# Southeast Transportation Workforce Center 2017-18 Initiatives

10/03/17







# Agenda

- Action Plans
- National Transportation Career Pathways Initiative

- Transportation Spotlights
- Questions



#### **SETWC Action Plans**



T-STEM Academy Blueprint



**Choosing Transportation** 



Women in Transportation Initiative

# Transportation-STEM Academy at East High

- Summer academy hosted nearly 60 students
- 2017 freshman cohort includes:
  - 90 students
  - 52 boys
  - 38 girls
- Current activities:
  - Currently on track to add diesel technology to program offerings in fall 2018
  - Local steering committee building project, field trip, speaker database
  - CEO Speaker Series
  - STEM Ambassadors
  - Looking for opportunities to partner with 'sister schools'
  - SETWC Blueprint report after first year operations







# Transportation-STEM Academy at East High





# Transportation-STEM Academy at East High

#### What's Next?

- Establishing 'sister school' partnerships
  - Cabrillo High School is partnered with SWTWC
  - Heyward Career Center Forrest Acres,
     SC diesel program with Cummins
- CEO Series
- Quarterly genius projects
- 'Lead in, Lead out' field trips
- And lots more!



Port of Long Beach Academy of Global Logistics at Cabrillo (AGL) The Port of Long Beach Academy of Global Logistics at Cabrillo (AGL)

AGL Business Partners



# AGL LOCKER PPT, Word, Excel Viewers [Go] Acrobat Reader [Go] AGL Brochure 9/20/16 8:19 AM - Christopher itson AGL Technical Course of Study 2016-2017 9/5/16 1:15 PM - Christopher itson Cabrillo Linked Learning

Newsletter September 2016

9/21/16 9:15 PM - Christopher

# The Port of Long Beach Academy of Global Logistics at Cabrillo (AGL)



The Port of Long Beach Academy of Global Logistics at Cabrillo High School (AGL), a partnership with the Long Beach Unified School District, combines academic curriculum with industry-relevant training and information to support academic and career development.

The Academy builds on the Long Beach College Promise by introducing high school students to career opportunities in global trade and logistics and showing them how to prepare for those careers through a wide range of training and education programs including certificates, certifications, and degrees offered by Long Beach City College and California State University, Long Beach. The goals are to: EXCITE – Create excitement around international trade, logistics and



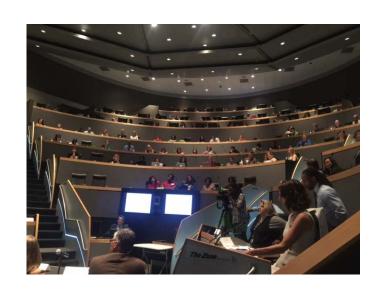




# **Choosing Transportation Summit, March 22-23 2018**

- Conference will be held in U of M FedEx Institute of Technology
- Annual Blue Pump Gala
- New format for event
  - One-day conference followed by half-day working group meetings
    - Women's Initiative
    - Operations working group
  - Conference will include professional and student tracks
  - Will again include vendor fair
  - Will provide shuttles between hotels/conference/gala venues

# SAVE THE DATE!!!!!!!!!!!!!!!!



# Women's Initiative

- •Partnership with Women's Foundation, workforce boards, industry
- •Identify possible focus areas and pilot program opportunities
- •More to come! Interested? Contact Stephanie lvey at: <a href="mailto:stephanie.ivey@memphis.edu">stephanie.ivey@memphis.edu</a>



#### PROJECT OVERVIEW

# National Network for the Transportation Workforce

- 5 Regional Transportation Workforce Centers
- Nationwide University-Based Research Team
- Dedicated to the Development of the Transportation Workforce
- Unique Discipline Focus at Each Center







#### PROJECT OVERVIEW

# National Transportation Career Pathways Initiative

"A goal of the National Transportation
Career Pathways Initiative is to
document a series of career pathways
(a sequence of educational courses and
training programs that align to an
occupational career ladder) that
engage and prepare students for key
transportation occupations."

- Identify Top 10-20 Occupations with Ops Focus in Transportation, Next 5-15 Yrs
- Identify Knowledge, Skills, Abilities (KSA's)
   Required by These Top Occupations
- Identify Gaps in Post-K12 Training/Education
   Delivery, Currently & Over Next 5-15 Yrs
- Identify Innovative Approaches to Delivering KSA's into Student/Worker Prep Pipeline
- Describe a Series of Career Pathways that Lead to Top Occupations, Next 5-15 Yrs
- Identify Scope of Pathway Implementation to Address Workforce Needs, Next 5-15 Yrs
- Identify Barriers; Propose Recommendations

#### PROJECT OVERVIEW

# **Career Pathways**

"Career pathways are an integrated collection of programs and services intended to develop students' core academic, technical and employability skills; provide them with continuous education, training; and place them in high-demand, high-opportunity jobs."

# **Core Pathway Components**

- Strategic Partnerships Employers, Education & Training Providers, Community Based Orgs
- Multiple Entry/Exit Points Post K12 Pathways,
   Marketable Credentials at Each Step, Short-Term
   Certificates, Links Training to Credit/Transcripts
- Employer Participation Pathway Development,
   Worksite Training, Internships, Job Placements
- Innovative Program Content/Delivery Technical Certifications, Contextualized/Accelerated Basic Skills, Flexible Scheduling, Experiential Learning
- Integrated Support Services Career & Academic Coaching, Financial Aid, Access to Public Benefits

# Region 10 Advanced Manufacturing CAREER PATHWAYS MAP

Business and Industry Experience, Proven Leadership Skills

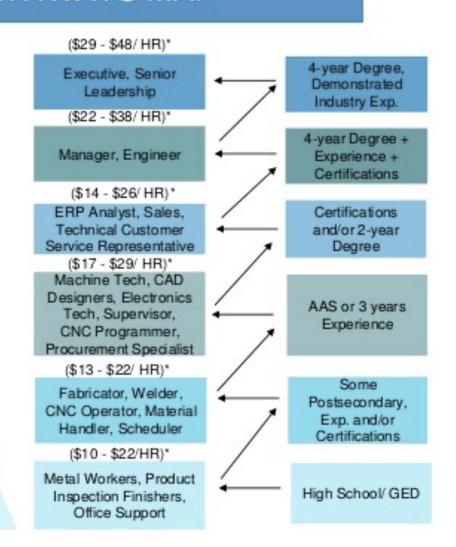
Experience with Contracts, Advanced PC Skills, Mechanical Desktop, ProE, Leadership Skills, Strategic Thinking, Organizational Planning

Accounting, ERP and Analysis, Technical Product Knowledge & Experience, Presentation Skills

CAD Design/Modeling, Programming, Mechanical/Electrical Intermediate and Troubleshooting Skills, Coaching, Delegation, Mfg. Experience

CNC Skills, Instrumentation, Teamwork, Problem Solving, Negotiation & Customer Service Skills, Mechanical/Electrical Basic Skills

Personal Effectiveness Skills, Academic Competencies, Multi-Tasking, Organization Skills, Attention to Detail, Mechanical Aptitude, Blueprint Reading

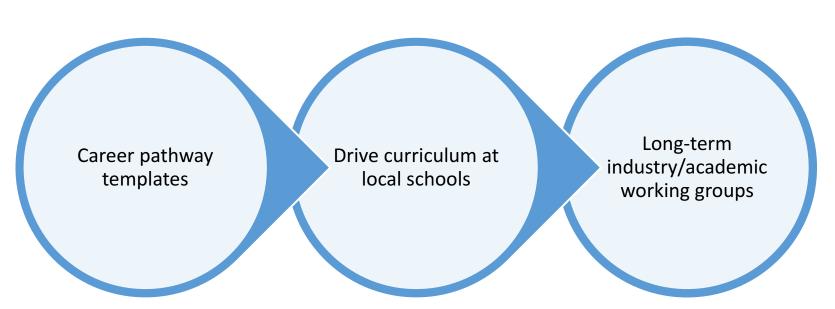


## • Timeline:

- April 2017: DWGs formed/national kickoff
- May 2017: Initial DWG meetings
- January 2018: Initial report due for career pathways for critical occupations
- August 2018: Initial report due for implementation plan
- October 2018: Final report due

Industry
Backdrop
Pipeline
Engagement
Challenge
Experience

# Goals and outcomes





For critical transportation occupations

 Continue to steer and advise workforces' skills, competencies, job availability, wages, etc.

# **Operations**

- Operations Discipline Working Group:
  - Dave Bergner, Principal, Monte Vista Associates; Chair, TRB Standing Committee on Maintenance and Operations Personnel
  - Robert Bertini, Director, Center for Urban Transportation Research at University of South Florida
  - Brad Freeze, Director Traffic Operations Division, TDOT
  - Nathan Garrett, Assistant Director, Tennessee College of Applied Technology
  - Sean Healy, Senior Vice President Strategic Planning & Engineering, FedEx Freight
  - Taiwo Jaiyeoba, Associate Vice President, HNTB Companies
  - Crystal Jones, Team Leader Freight Management and Operations, FHWA

# **Operations**

- Operations Discipline Working Group:
  - **Terry Murphy-Latta**, Director of Railroad Training Programs, National Academy of Railroad Sciences, Johnson County Community College
  - Eric Rensel, Vice President, Gannett Flemming
  - Mark Robinson, President and COO, Dbi Services
  - Gary Rosenfeld, CEO, Memphis Area Transit Authority
  - Page Siplon, CEO, TeamOne Logistics
  - Patrick Son, Managing Director, National Operations Center of Excellence
  - Anne Strauss-Wieder, Director of Freight Planning, North Jersey Transportation Planning Authority

#### Get Involved!

- Transportation Spotlights nominate your colleagues (or yourself)!
- Weekly social media campaign all year!
  - @SETWC\_UofM
  - Facebook & LinkedIn (Southeast Transportation Workforce Center)
- Web repository (will also build into operations career pathway resources)



NAME: Calvin Abram COMPANY: TDOT Office of Community TITLE: OCT Region IV Supervisor

**COLLEGE:** University of Alabama at Birmingham DEGREE: BS in Criminal Justice, Master's of Public Administration specializing in Urban Planning and Community Development

training and experience to Univer Q: What was the biggest Infl selection of major/career pa A: I always had a fixation on th and how I could better the gual through our social and physical

Q: What attracted you to the A: I wandered into planning by of planning I am involved in is i planning and that is essentially transportation planning integra decrease congestion and impro as promote more healthy life op

0: What is your favorite aspe A: I love the ability to travel and from all walks of life and socioe

Q: How do you/your company Impact on society/our comm A: TDOT does direct outreach ar which better assists the State with both the wants and needs thereby allowing us to provide projects and programming that individual jurisdictions and/o

memphis.edu/setwc





Q: What makes you get up each morning excited about your profession? A: It feels good to contribute to quality of people's lives. Traffic is something that we experience every day and we are constantly looking for ways improve the transportation system.

Q: If you could go back to high school and select any elective course to take that would have better prepared you for the future, what would it be? A: I would recommend design and programming courses. Engineers have only one required course of each and those skills are always helpful after graduation

Q: What advice would you share with K-12 students that are considering your profession? A: Take as many science classes as possible. Most of the engineering majors have a hard time and sometimes drop out the first two years of math, physics, and chemistry. After the



NAME: Tony Kratofil, PE **COMPANY:** Michigan Department of Transportation TITLE: Metro Region Engineer

Q: How did you select your certification program or college major? A: From a young age I was always interested in building things. At one point, in early high school, I was considering architecture. But after discussing this career path with counselors and professionals. and I learned about what it took to become established as an architect. I decided by the end of

high school to pursue Civil Engineering instead. After working for several years at the Michigan DOT. I saw the opportunity to influence and make ons about what work we did and how we

COLLEGE: University of Michigan (BS) & Central Michigan University (MS)

DEGREE: BS Civil & Environmental Engineering, MS Administration

things. My father was a math teacher too, so that foundation of analytical thinking and creative problem solving has always been appealing to me

Q: What attracted you to the transportation industry?

A: When I was in college for my bachelor's degree. I concentrated my studies on structures, and always thought I would be more involved in vertical construction of buildings and towers. But when I graduated, the economy was not very good, and the companies that do that sort of work were not really ring. So, in the interest of having a job where I could

agineering education, I looked at several DOTs at Michigan DOT, I really enjoyed learning portation and designing roadways. After we were at the infancy of the asset t movement, and that excited me, because lered why we were doing the projects that ing. This gave me the opportunity to get ed in scoping and decision making about we programmed and eventually built.

your favorite senect of your loh?



- JOC Inland Distribution Conference 2017
  - November 6 session for students
  - Modeled after last year's successful partnership (and 'Meet your Mode' format)
  - Capacity of 125 students
  - Atlanta area school contacts?



November 06 - 08, 2017 Atlanta, Georgia





#### **NEW IN 2017**



#### NETWORKING

3 days of content and networking catered directly to 400+ domestic shippers and transportation providers.



#### NEW LOCATION

Moving to Atlanta, Georgia, the largest freight transportation hub in the Southeast.



#### KEY MARKET DATA

Two full days of in-depth North American focused content, including market outlook and pricing trends, technology and innovation, and think tank round tables.

# Questions?

Stephanie Ivey:

stephanie.ivey@memphis.edu

Marty Lipinski:

mlipinsk@memphis.edu

Meredith Powers:

meredith.powers@memphis.edu

