

Meeting Our Future Transportation Workforce Needs

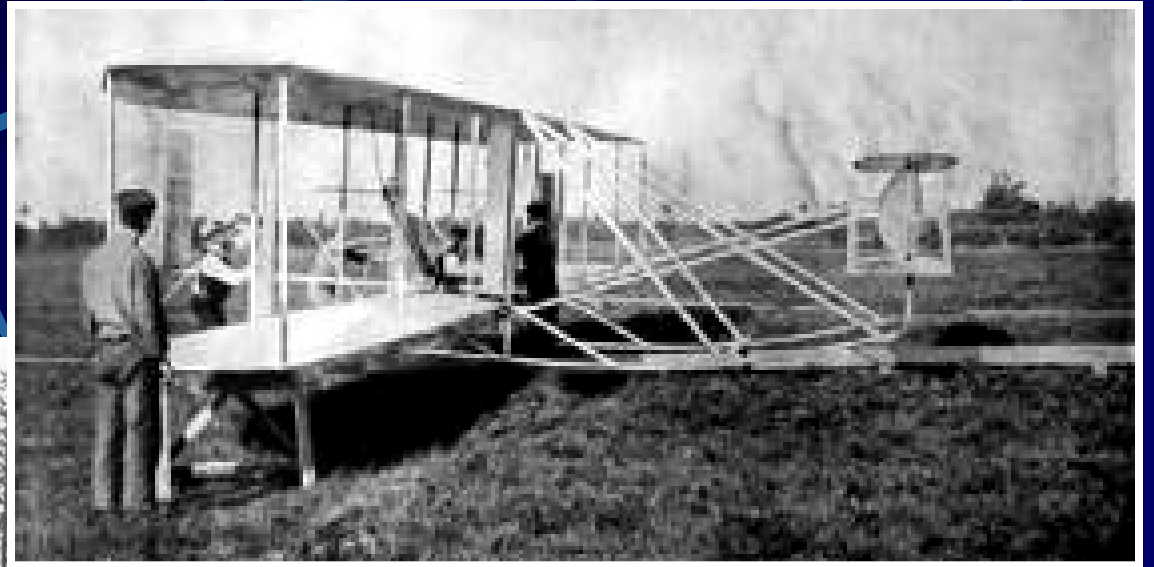


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Connecticut Transportation Institute



100 years ago...

U.S. Transportation -21st Century

- Transportation – 11.2% of U.S. Gross Domestic Product
- Transportation employs 6.4 Million Workers
4.5% of Total Workforce
- Vehicle miles traveled (VMT) increasing twice as fast as the population
- Over \$100 Billion spent for Highway Program
- For every \$1 Billion of Investment in Highways - Creates 42,000 Jobs

Priorities..... Mobility

Environmental
Quality

National
Security



Safety



CHALLENGES: Congestion....





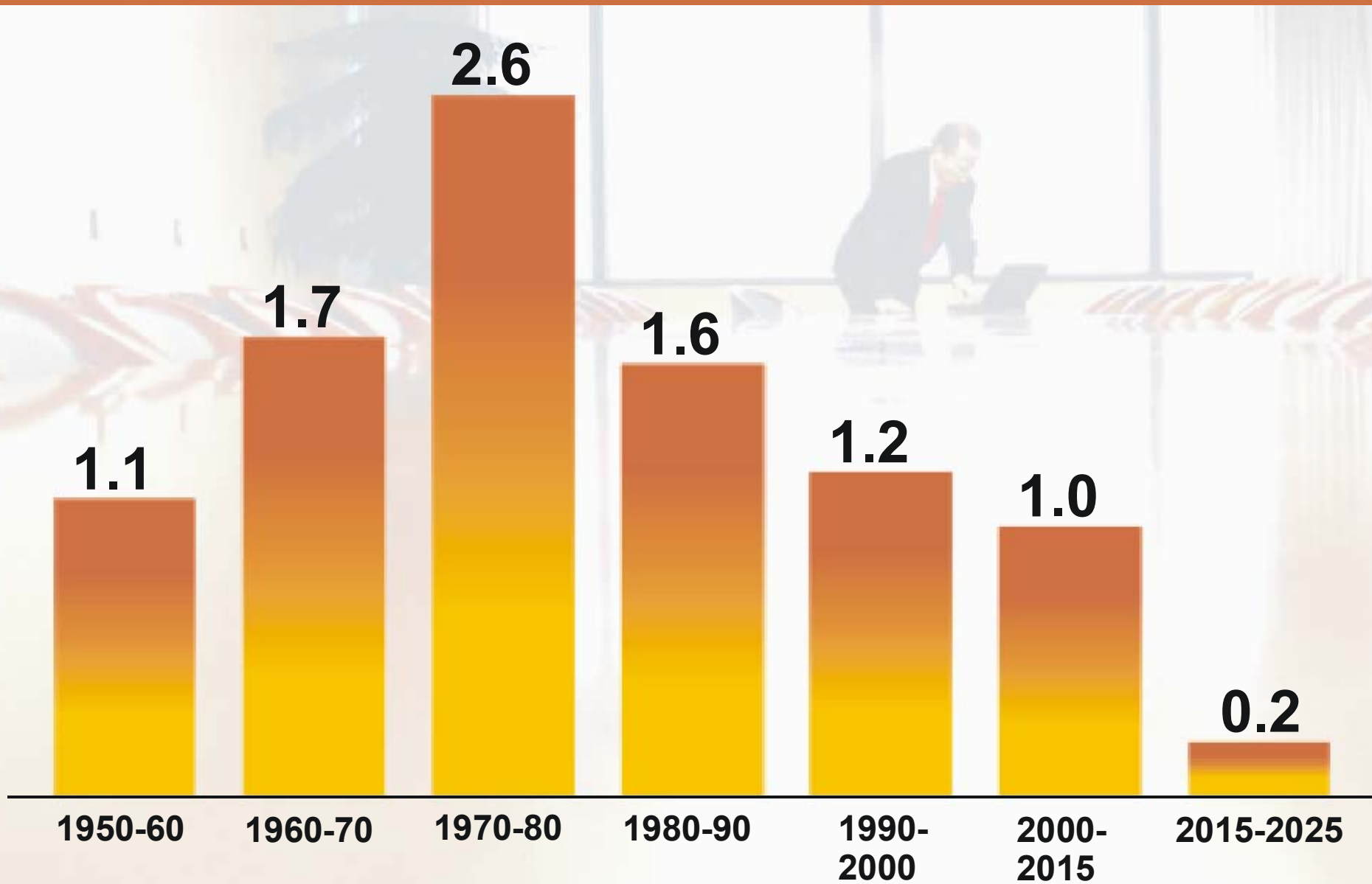
Building and Rebuilding

Smarter Transportation Systems



Will we have the
workforce we need to
meet the nation's
transportation
challenges?

Annual rates of labor force growth, 1950-2025



SOURCE: Bureau of Labor Statistics. Rates in percent.

| Projected |

Factors contributing to this concern

1. “Baby Boomers” Retiring

- Congress estimates almost half of the federal workforce will be eligible to retire in the next three years
- Rockefeller Institute of Government – 40% of state and local agency workers are between the ages of 45 and 64
- Similar estimates for the private sector

Factors contributing to this concern

2. Increasing Demand for Transportation
3. Demands to “do it faster with less”
4. Tightening budgets for education and training.

National Workforce Initiatives

- **National Transportation Workforce Summit** - May 13, 2002
- **TRB Report 275**: “The Workforce Challenge”
<http://trb.org/publications/sr/sr275.pdf>
- **NAS Report** of the Government, University, Industry, Research Roundtable (GUIRR) “Pan Organizational Summit on the U.S. Science and Engineering Workforce”

Major Outcomes

1. “Filling the Pipeline”
2. Investing in Skills Development
3. Building Partnerships

1. “Filling the “Pipeline”

- Making a sustained and proactive commitment to ensure that young people as well as mid-career individuals are attracted to and choose transportation careers.
- Establish strong ties to colleges, universities and community colleges

2. Investing in Skills Development

- Develop clearinghouse of transportation training and developmental programs
- Use latest training technologies
- Invest in existing successful programs
- Create culture which supports investment in skills development

3. Building Partnerships

- Create institutional framework to coordinate these efforts on a continuing basis and bring transportation community together
- Share resources and data across government, industry and academia to address these issues

NEXT STEPS

Making It Happen

- Awareness: Understand the Problem
- Coalition Building: Bring together those with a shared interest
- Learn: Find out who is doing what
- Act: Apply resources and energy
- Commitment: Sustain the effort

How can you get involved in your states:

- Statewide Workforce Development Summits
- Transportation Construction Career Days
- Summer Transportation Institutes

Statewide Workforce Development Summits



Opportunity to bring together:

- **Leaders from Transportation Agencies**

- **Academia**
- **Industry**
- **Labor Unions**
- **Professional Associations**



Construction Career Day

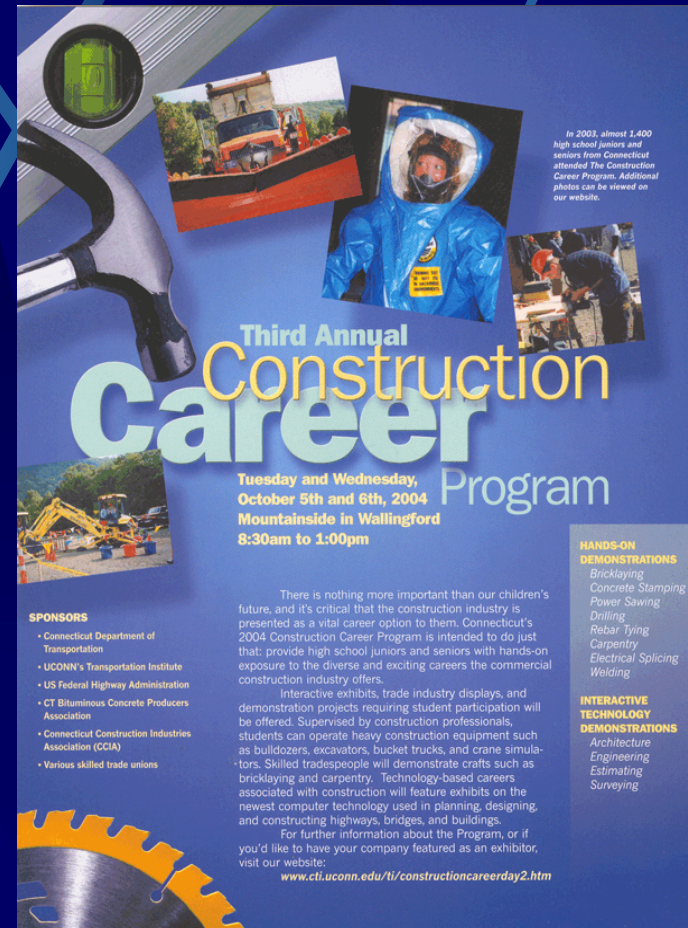
Hands-On Experience
aimed at
High-School Juniors
and Seniors



Construction Career Days

Number of States
that will have
Construction
Career Days in
2004:

20



The flyer features a collage of construction-related images: a hammer, a power saw blade, a person in a blue protective suit, a boat, and various construction equipment. The text is arranged in a structured layout with a central title and surrounding descriptive and promotional text.

**Third Annual
Construction
Career
Program**

**Tuesday and Wednesday,
October 5th and 6th, 2004
Mountainside in Wallingford
8:30am to 1:00pm**

**HANDS-ON
DEMONSTRATIONS**
Bricklaying
Concrete Stamping
Power Sawing
Drilling
Rebar Tying
Carpentry
Electrical Splicing
Welding

**INTERACTIVE
TECHNOLOGY
DEMONSTRATIONS**
Architecture
Engineering
Estimating
Surveying

In 2002, almost 1,400 high school juniors and seniors from Connecticut attended The Construction Career Program. Additional photos can be viewed on our website.

There is nothing more important than our children's future, and it's critical that the construction industry is presented as a vital career option to them. Connecticut's 2004 Construction Career Program is intended to do just that: provide high school juniors and seniors with hands-on exposure to the diverse and exciting careers the commercial construction industry offers.

Interactive exhibits, trade industry displays, and demonstration projects requiring student participation will be offered. Supervised by construction professionals, students can operate heavy construction equipment such as bulldozers, excavators, bucket trucks, and crane simulators. Skilled tradespeople will demonstrate crafts such as bricklaying and carpentry. Technology-based careers associated with construction will feature exhibits on the newest computer technology used in planning, designing, and constructing highways, bridges, and buildings.

For further information about the Program, or if you'd like to have your company featured as an exhibitor, visit our website:
www.cti.uconn.edu/ti/constructioncareerday2.htm

SPONSORS

- Connecticut Department of Transportation
- UCONN's Transportation Institute
- US Federal Highway Administration
- CT Bituminous Concrete Producers Association
- Connecticut Construction Industries Association (CCIA)
- Various skilled trade unions

NEAUPG States hosting Construction Career Days

- **Connecticut**
- **Massachusetts**
- **Maryland**
- **New York**
- **Rhode Island**

Construction Career Days



**Hands -On
Activities**



Exhibitor Displays:



Exhibitors:

- ✓ Private Industry
- ✓ Government Agencies
- ✓ Engineering Firms
- ✓ Universities/Colleges
- ✓ Apprentice Programs



Potential CCD Partners

- FHWA
- State DOT
- LTAP Center
- Local Highway Officials Associations
- Labor Unions
- Private Industry
- Construction Industries Associations
- State Department of Education
- Bituminous Concrete Association
- State Department of Labor

Summer Transportation Institute

- **USDOT and FHWA Developed Program**



- **Middle School Students**



- **Two week long summer session**



Summer Transportation Institute

- Hands-on Activities



- Field Trips



NEAUPG States hosting Summer Transportation Institutes

- **Delaware**
- **Pennsylvania**
- **Massachusetts**
- **Maryland**
- **New York**
- **Rhode Island**

**Want information on how to
set-up
a Summer Transportation
Institute in your state:**

- Visit the FHWA National Summer Transportation Website at:

<http://www.fhwa.dot.gov/resourcecenter/nsti.htm>

**Want information on how to
set-up
a Construction Career Day in
your state:**

- Visit the National CCD Web Site at:
<http://constructioncareerdays.info/>

Any Questions:

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