

Connecticut Transportation Institute

Technology Transfer Center

Celebrating **35** Years



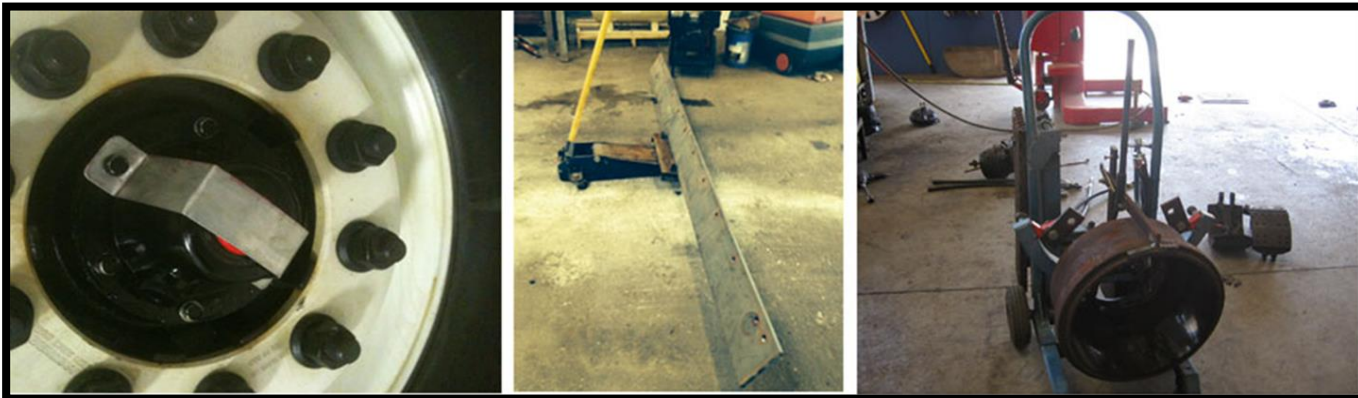
Innovations from the Front Lines – The Connecticut Story

Donna Shea

Director - CT LTAP

What is Innovation?

- Merriam Webster defines it as:
: a new idea, method, or device
- Eric Kaufmann (a leadership author):
“Innovation is the ability to transform creative ideas into practical solutions and applications”



Wheel Hub Strap

One-Man Plow Tool

Brake Drum Remover

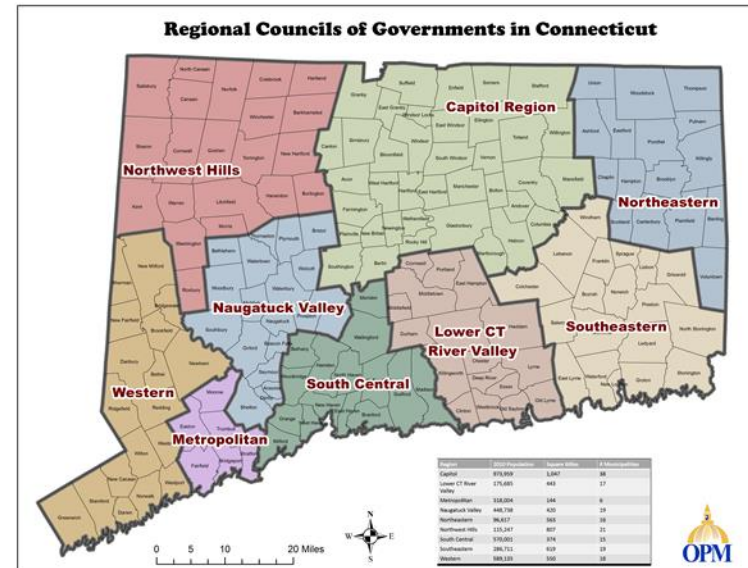
Connecticut LTAP Innovation Goals:

- Identify new solutions and practices from the front lines of both local agencies and State DOT districts.
- Reward innovative thinking by providing recognition through the CT Creative Solutions Award Program.
- Encourage the use of innovations by incorporating them into the LTAP/Technology Transfer training curriculum development, newsletters and tech briefs.

CT LTAP Goals (Continued):

- Provide opportunities for state and local agency staff to come together to discuss innovation:
 - Timely roundtable discussions
 - Innovation Day – Scheduled in 2019
 - Transportation Leadership Program Modules
- Submit CT Innovations for consideration in the FHWA National Build a Better Mousetrap Program.

CT Partners to Advance Innovation:



CT Creative Solutions Program

- For the past 13 years, this program has recognized the initiative and innovative thinking of public agency transportation staff in the development of tools, equipment modifications, and processes that increase safety, reduce cost, improve efficiency, and improve the quality of transportation.
- Promotes continued improvement and technology transfer: taking good ideas and documenting them so that they can be shared among the transportation community.
- Annual Judging Panel that reviews innovations.
- Three awards are given each year. Plaques and training vouchers are provided.
- Municipal and State DOT employees are eligible.



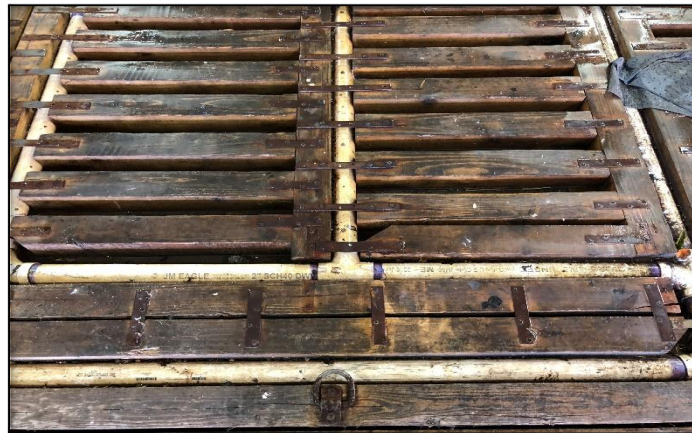
2018 Creative Solution:

Undercarriage Washing System

Town of South Windsor

Problem Statement: Harsh snow fighting chemicals collect on winter operations equipment, causing corrosion and damage and make it difficult for mechanics to maintain the equipment. Washing and rinsing is helpful but is especially difficult to do for the undercarriage of vehicles.

Solution: A drive over flushing system was designed using Pressure treated 4x4s were connected using metal strapping and screws to create protection for PVC pipe. Quarter inch holes were drilled into the pipe to provide a low pressure mash flush capability. Fleet vehicles drive over the system, flushing the chlorides off the equipment and creating a welcome environment for maintenance and repair. The entire system is connected to a two inch water service using a section of fire hose.



Cost estimate: \$300-400 in materials

Benefit: The system has gone through well over 1000 cycles and continues to provide excellent service for the 30+ fleet vehicles during each winter operations activity. Keeping the fleet clean allows for timely service and extension of service life of the equipment.



A Sharing Opportunity



Online guide is available of all winning solutions:

www.t2center.uconn.edu



Under guiderail material pusher

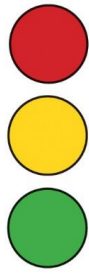


Sign Base Carrier



Salt Chute for Rear Mounted Spinners

Innovation Station



Asphalt Trench Paving Box



Monthly Newsletter Feature:

- Promotes Local Innovations
- Promotes the Latest National Innovations Every Day Counts (EDC)
- Promotes Webinars and Trainings



Gantry Lifting Device

Curriculum Example

- In 2018, CT Developed our Green Snow Pro training program.
- Several of our Creative Solutions have the ability to help local and state agencies in this effort - we incorporate them into the training program.

Pre-Wetting Backflush



Under Carriage Washer



Rear Spinner Salt Chute



Happy to talk about our programs anytime, call or
email:

Donna Shea

(860) 486-0377

Donna.Shea@uconn.edu