The “You Show Us” Contest is sponsored every year by the T² Center. The winner from Wyoming then goes on to compete in the regional contest held in Rapid City.

**Project: Bighorn County’s Pull-Behind Steel-Drum Roller**

**Problem Statement:** The Bighorn County Road and Bridge Department wanted a way to provide a tighter surface after performing routine maintenance with a motor grader on some of their gravel roads. After normal maintenance, the surface was loose and tended to form ruts and washboards easily.

**Solution:** By attaching a steel drum to the back of a motor grader, the County was able to apply sufficient surface compaction to provide a tighter top surface, thereby reducing washboards, loose aggregate and rutting on the top surface. The County has been developing this method for a number of years now, and the current version seems to be working well.

The tighter surface created by the steel drum improves surface drainage by reducing infiltration into the gravel. Using the ripper hydraulics to increase pressure on the drum, considerable weight is applied to the steel drum and a tight top surface results. The County is able to provide a better initial ride for the traveling public and slow the formation of surface distresses such as washboards, loose aggregate, rutting, and potholes.

**Labor:** 40 man-hours

**Materials/Cost:** The materials used were a steel drum, axle, 800 lb. bearings, mounts, frame, and a scraper bar for a total cost of $3,000.

**Savings/Benefits:** The County is able to provide a better, more durable ride to the traveling public with only a slight increase in the time it takes to maintain the road. Fine grained materials are better compacted and form a tighter, more water resistant surface.
THE T² LIBRARY AT YOUR FINGERTIPS

The Center’s library is full of useful information for your agency’s personnel and training needs. The following is only a partial listing of the videos and DVDs, free publications and loan publications that we have available. Please visit our web site for a complete list of library materials: wwweng.uwyo.edu/wyt2. Please save this newsletter for future reference!

VIDEOS

**Design & Construction**
- DC7201 800 Miles of Winter
- DC7202 Shake Hands with Danger/Operating Tips
- DC7203 Operating Tips
- DC7204 Concrete Pavement
- DC7207 Testing of Asphalt Cement
- DC7208 AASHTO Road Test
- DC7209 Verglimit: Mixing and Laying
- DC7210 Basics of the Local Road Engineer
- DC7211 The Importance of Road Drainage
- DC7212 Stabilization for Low Volume Roads
- DC7213 Standard Soil Tests
- DC7214 Design of Urban Streets, Part I
- DC7215 Design of Urban Streets, Parts II and III
- DC7216 Design of Urban Streets, Part III
- DC7217 Design of Urban Streets, Part IV
- DC7218 Asphalt Paving Inspection/Pothole Repair
- DC7219 Tilt Bed Trailers/Mowers, etc.
- DC7220 Motor Grader Operation
- DC7221 The Importance of Roadway Drainage
- DC7222 Retaining Wall Design Guides
- DC7223 Concrete Bridge Deck Construction, etc.
- DC7224 Introduction to Asphalt Materials
- DC7225 Bituminous Concrete Paving
- DC7226 Impact of Truck Size and Weights
- DC7227 Urban/Rural Roads Width Standards
- DC7228 How Pavements Are Affected by Axle Loads
- DC7231 Specialty Maintenance Products
- DC7232 Marshal Method for Hot Mix Paving Design
- DC7233 Field Aggregate Sampling
- DC7234 Snow and Ice Removal
- DC7235 Highway Built on Sand
- DC7236 Dirt Work in the Oil Patch
- DC7238 City Streets: The Concrete Advantage
- DC7239 The Highway and Its Environments
- DC7245 Fundamentals of Proportioning Concrete Mixtures
- DC7246 Field Tests for Quality Control of Fresh Concrete
- DC7248 Concrete Parking Lots
- DC7249 Modern Timber Bridges
- DC7250 Hydrated Lime
- DC7251 Hardsurfacing a Gravel Road Using Pre-Mix Asphalt
- DC7252 Concrete Bridge Railings
- DC7253 Introduction to Bridges
- DC7256 Weather and Loads
- DC7257 Railroad Grade Crossing Surface Installation
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- DC7273 Backhoe Loader Safe Operating Techniques
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- DC7276 Flagging You’re the Director
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- DC7279 Wheel Loader Walk-Around and Introduction
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- DC7283 Roller-Compacted Concrete
- DC7284 Building Trades: Site Preparation
- DC7285 Soil Erosion and Sediment Control
- DC7286 Building Construction: Basic Site Evaluation
- DC7287 Mounting and Dismounting Heavy Equipment
- DC7288 Building Quality Concrete Driveways
- DC7290 Inspecting Concrete (before)
- DC7291 Inspecting Concrete (after)
- DC7292 Stormwater Runoff
- DC7293 Full Depth Recycling With Cement
- DC7294 Soil
- DC7295 Building Construction: Basic Surveying
- DC7296 Concrete Field Tests
- DC7297 Fundamentals of Quality Concrete
- DC7298 The Top Ten Myths in Concrete Construction
- DC7299 Working Safely With Hot Mix
- DC7300 Handling Hot Mix Asphalt
- DC7301 Understanding Superpave Mix Design
- DC7302 Paving Practices for Quality
- DC7303 Safe Handling of Hot Mix Asphalt

**Maintenance**
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- M7206 Prestressed Concrete Bridge Inspection
- M7207 Bridge Inspection (Timber/Steel)
- M7208 Roadway Maint. Cost Analysis, Parts I & II
- M7209 Roadway Maint. Cost Analysis, Parts III, IV, V
- M7210 Maintenance of Highway Safety Hardware
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ST7332  Safety Orientation: Don’t be a Zombie
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ST7348  Highway: Surveying Safety
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ST7350  Highway: Utility Safety in Work Zones
ST7351  Highway: Unloading Heavy Equipment
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ST7353  Highway: Paving Safety
ST7354  Trenching and Shoring Safety
ST7355  Forklift Safety
ST7356  Safely Exposing Buried Utilities
ST7357  Materials Handling Safety

FREE PUBLICATIONS

Design & Construction
DC058  Inspector’s Job Guide and Highway Maintenance Tables
DC070  Public Works Inspection--Inspector’s Workbook and Definitions
Planning & Administration

PA079 Management and Supervisory Skills for Managers in Local Government
PA081 Administration of Bridge Inspection
PA082 Organization
PA083 Personnel
PA084 Financial Management
PA085 Tort Liability
PA086 Road Programming
PA087 Caring for Our Nation’s Waters
PA089 Our Nation’s Highways - Selected Facts and Figures
PA090 A Summary: Transportation Programs and Provisions of the Clean Air Act Amendments of 1990
PA091 Guidelines for Evaluating Fluorescent Strong Yellow Green Crossing Signs
PA092 Implementation of Geographic Information Systems (GIS) in State DOTs
PA093 Distress Identification Manual for the Long-Term Pavement Performance Project
PA094 Effective Technical Writing
PA095 Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities, Transportation Facilities, Transportation Vehicles
PA096 Americans with Disabilities Act, Title II Technical Assistance Manual
PA097 Americans with Disabilities Act Title III Technical Assistance Manual
PA098 Local Low Volume Roads and Streets
PA099 The Appraisal Guide
PA101 Intermodal Surface Transportation Efficiency Act: A Guide to the Congestion Mitigation and Air Quality Improvement Program
PA102 Searching for Solutions-Bond Financing and Transportation Infrastructure: Exploring Concepts and Roles

PA103 ‘95 Asphalt Institute Catalog
PA104 Transportation Quality in Wyoming Seminar Workbook
PA105 ‘95 Statewide Long-Range Plan
PA106 “You Show Us How” Contest Winners
PA107 LTAP Resources Directory
PA108 Purchasing Authority
PA109 Public Awareness and Support
PA110 Impact of Land Development on County and Local Transportation System Planning
PA111 Rural Transportation Planning
PA112 Solid Waste Management
PA113 Traffic Operations
PA114 LTAP News: 1993
PA115 Traveling With Success: How Local Governments Use Intelligent Transportation Systems
PA129 “You Show Us How” Contest Winners
PA130 Primer: GASB 34
PA131 Asset Management Primer
PA132 Data Integration Primer
PA133 Life-Cycle Cost Analysis Primer
PA134 Successful Supervision for Local Road Supervisors

Safety & Traffic

ST061 Work Zone Traffic Control Information Catalog
ST062 A Users’ Guide to Positive Guidance (3rd Ed.)
ST064 Safety Features for Local Roads and Streets
ST065 Utility Poles: A Highway Safety Concern
ST066 Sign Fabrication, Installation, and Maintenance--Innovative Practices
ST067 Vegetation Control for Safety: a Guide for Street and Highway Maintenance Personnel
ST069 Quality Standards for Work Zone Traffic Control Devices
ST070 Breakaway Timber Utility Poles
ST071 The Breakaway Timber Utility Pole: A Survivable Alternative
ST072 Truck Escape Ramps
ST074 A Guide to Mailbox Safety in Montana
ST075 The Elimination or Mitigation of Hazards Associated with Pavement Edge Drop-Offs During Roadway Resurfacing
ST076 Workshop on Field Inspection and Rehabilitation of Traffic Control Devices
ST077 Guidelines for Traffic Control in Work Zones
ST104 Read Your Road
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ST110 Traffic Signing Handbook
Design & Construction
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DCR102 Subsurface Utility Engineering
DCR103 Earth Modification Using Geosynthetics
DCR104 Geotextiles in Transportation Applications
DCR106 Metric Conversion Manual
DCR107 Differential GPS Explained
DCR108 GPS--A Guide to the Next Utility
DCR110 Construction Manual for Highway Construction
DCR111 A Policy on Geometric Design of Highways and Streets
DCR112 Economic Design of Low-Traffic Roads
DCR113 Residential Street Design and Traffic Control
DCR114 Amoco Professional Development Series: Geotextiles in Transportation
DCR115 Timber Bridges: Design, Construction, Inspection, and Maintenance
DCR116 Stormwater Management & Drainage
DCR117 Proceedings - 7th International Conference on Low Volume Roads
DCR118 Highway Design Handbook For Older Drivers and Pedestrians
DCR119 Guidelines for Geometric Design of Very Low-Volume Local Roads
DCR120 Standard Specifications for Transportation Materials and Methods of Sampling and Testing: Part 1 - Specifications
DCR121 Standard Specifications for Transportation Materials and Methods of Sampling and Testing: Part 2 - Tests
DCR123 Evaluation of the Geo-Con VERT Wall System
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DCR125 Evaluation of the Inter-Lok Retaining Wall System
DCR126 Guide for the Planning, Design, and Operation of Pedestrian Facilities
DCR127 Cross-Reference for Drainage Pipe Specifications for Waterways, Airports, Railroads, Transit and Highways
DCR128 A Guide for Achieving Flexibility in Highway Design
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DCR131 Implementation Manual for Quality Assurance
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DCR135 A Guide for Accommodating Utilities Within Highway Right-of-Way
DCR136 In Situ Soil Improvement Techniques
DCR137 Standard Specifications for Highway Bridges
DCR138 The Homeowner’s Guide to Building with Concrete, Brick, and Stone
DCR139 Shotcreting--Equipment, Materials, and Applications
DCR140 Concrete Inspection Handbook
DCR141 Cold Weather Concreting
DCR142 College Literature CD-ROM
DCR143 Bridge Welding Code
DCR144 Urban Drainage Manual
DCR145 Concrete Construction Handbook
DCR146 Application of Geophysical Methods to Highway Related Problems
DCR147 Context Sensitive Roadway Surfacing Selection Guide
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DCR202 The Traffic Signal Book
DCR203 Culvert Design Aids
DCR204 Concrete Culverts and Conduits
DCR205 A Guide to Standardized Highway Lighting Pole Hardware
DCR206 Retroreflectivity of Roadway Signs for Adequate Visibility: A Guide
DCR207 Roadside Design Guide
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DCR302 Asphalt Technology and Construction Practices, Instructor’s Guide
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DCR304 Publications by NAPA
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DCR307  Thickness Design for Concrete Highway and Street Pavements
DCR308  Guide to Concrete Resurfacing Designs and Selection Criteria
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DCR317  Designing Safer Roads--Practices for Resurfacing, Restoration, and Rehabilitation
DCR318  Whitetopping - State of the Practice
DCR319  Supplementary Cementing Materials for use in Concrete
DCR320  Introduction to Concrete Mix Design
DCR321  Admixtures for use in Concrete
DCR322  Design and Control of Concrete Mixtures
DCR323  Model Drainage Manual (Metric Edition)
DCR324  Asphalt Pocketbook of Useful Information
DCR325  Asphalt Cold-Mix Recycling
DCR326  Soils Manual
DCR327  Asphalt Cold Mix
DCR328  Superpave: Superpave Mix Design
DCR329  Superpave: Performance Graded Asphalt Binder Specification and Testing
DCR330  Thickness Design - Asphalt Pavements for Heavy Wheel Loads
DCR331  Construction Specifications for Asphalt Curbs and Gutters
DCR332  Asphalt in Hydraulics
DCR333  PMA for Paving
DCR334  Asphalt Emulsion
DCR335  Mix Design Methods
DCR336  Drainage of Asphalt Pavement Structures
DCR338  High Performance Hot Mix Asphalt Intersection Strategy
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Maintenance
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MR102  Program Administration: Maintenance Practices for Local Roads--Program Administration
MR104  AASHTO Maintenance Manual 1987
MR105  Gravel Roads Maintenance and Design Manual
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MR109  Distress Identification Guide
MR110  Bridge Management, Experiences of California, Florida, and South Dakota
MR111  Vehicle Cleaning Technology for Controlling the Spread of Noxious Weeds and Invasive Species
MR200  Street and Highway Maintenance Manual
MR201  Pavement Management: A Manual for Communities
MR202  Pavement Maintenance Effectiveness: Preventive Maintenance Treatments
MR203  Concrete Pavement Restoration
MR204  More Effective Cold, Wet-Weather Patching Materials for Asphalt Pavements
MR205  Asphalt Pavement Repair Manuals of Practice
MR206  Quality Control for Hot Mix Asphalt Manufacturing Facilities and Paving Operations
MR207  Roads and Streets--Maintenance Management System (MMS)
MR208  Handbook for the Identification of Alkali-Silica Reactivity in Highway Structures
MR209  Surface Design and Rehabilitation Guidelines for Low Volume Roads
MR210  Calcium Magnesium Acetate at Lower Production Cost: Production of CMA De-icer from Cheese Whey
MR211  Pavement Recycling Guidelines for State and Local Governments, Participant’s Reference Book
MR212  Soil-Cement/RCC Pavements: Wyoming T2 Workshop
MR213  Asphalt Pavement Maintenance: Field Guide
MR214  Concrete-PASER Manual
MR215  Concrete: Sustainability and Life Cycle
MR216  Troubleshooting and Repair
MR217  Maintenance: Asphalt in Pavement Maintenance
MR218  Alternatives in Pavement Maintenance, Rehabilitation, and Reconstruction
MR219  Minnesota Snow and Ice Control - Field Handbook for Snowplow Operators
MR220  Gravel Roads Maintenance: Meeting the Challenge
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