**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Lead Agency (FHWA or State DOT): \_\_\_\_NDDOT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**INSTRUCTIONS:**

*Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

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| **Transportation Pooled Fund Program Project #***(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)*TPF 5(333)  | **Transportation Pooled Fund Program - Report Period:**✓Quarter 1 (January 1 – March 31)□Quarter 2 (April 1 – June 30)□Quarter 3 (July 1 – September 30)□Quarter 4 (October 1 – December 31) |
| **Project Title:**Transportation Learning Network |
| **Name of Project Manager(s):**Clayton Schumaker | **Phone Number:**701-328-6906 | **E-Mail**cschumaker@nd.gov |
| **Lead Agency Project ID:**TPF 5(333) | **Other Project ID (i.e., contract #):**17-314-0800 | **Project Start Date:**10/1/2015 (New Federal ID) |
| **Original Project End Date:** | **Current Project End Date:**9/30/2020 | **Number of Extensions:**0 |

Project schedule status:

✓On schedule □ On revised schedule □ Ahead of schedule □ Behind schedule

Overall Project Statistics:

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| --- | --- | --- |
|  **Total Project Budget** |  **Total Cost to Date for Project** |  **Percentage of Work**  **Completed to Date** |
|  |  | NA |

***Quarterly*** Project Statistics:

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| --- | --- | --- |
|  **Total Project Expenses**  **and Percentage This Quarter** |  **Total Amount of Funds**  **Expended This Quarter** |  **Total Percentage of**  **Time Used to Date** |
|  | $125,491.31 | NA |

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| **Project Description**:The Transportation Learning Network (TLN) was developed to serve the transportation interests of the region and complements the efforts of its various members. It provides access to information and expertise not readily available to transportation professionals in the region. TLN identifies schedules, distributes and warehouses technology transfer for its member state DOTs.**Vision:** To excel on a national basis as a premier transportation technology transfer organization that serves as a model for other states. **Mission:** TLN provides quality and cost-effective customer-driven technology transfer utilizing alternative platforms that meet the needs of the state, county, city, tribal and private transportation professionals. |

Staff develop a list of technology transfer presentations based on priorities determined by the 4-state members of the Transportation Learning Network (TLN). Topics are researched, descriptions written, presenters identified, negotiate presenter contracts and schedule presentations.

There are monthly meetings of the programming committee consisting of members from the 4-state DOTs and TLN staff. The committee approves identified topics and TLN staff move forward with announcing the events and putting into place a registration process.

The majority of presentations occur between October and April due to the construction season in the 4 states served by this program. The summer months are when the program staff and committee members identify and prioritize technology transfer topics.

Following is a list of presentations delivered via video conferencing or webinar during this reporting period and the number of participants. In addition to live presentations, there are over 150 online self-paced modules available. Full descriptions can be found on the TLN website at [www.translearning.org](http://www.translearning.org).

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| **PRESENTATIONS JANUARY THROUGH MARCH 2018**

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| --- | --- | --- | --- |
| **Presentation Title** |  **Delivery Method** | **Date** | **# Attended** |

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| --- | --- | --- | --- |
| HDPE/PP Pipe | Webinar | 1/5/2018 | 77 |
| Construction Project Mgmt/Contract Admin | Video Conf | 1/9/2018 | 66 |
| MPC Research: A Comprehensive Safety Analysis of Diverging Diamond Interchanges | Webinar | 1/16/2018 | 42 |
| Down with Stress! | Video Conf | 1/18/2018 | 75 |
| Reinforced Concrete Pipe | Webinar | 1/19/2018 | 96 |
| Bridge Preservation: Development of a Cost-Effective concrete Bridge Deck Preservation Program | Webinar | 1/22/2018 | 83 |
| Maxwell: Put Your Dreams to the Test | Video Conf | 1/23/2018 | 31 |
| e-Construction Roundtable | Video Conf | 1/24/2018 | 42 |
| ATSSA Traffic Control Technician | Video Conf | 1/30/2018 | 133 |
| Sheet Piling and Cofferdam Design | Video Conf | 2/1/2018 | 86 |
| Ultra Violet Cured in Place Lining | Webinar | 2/2/2018 | 42 |
| Succession Planning for All Managers | Video Conf | 2/7/2018 | 71 |
| Coaching and Counseling | Video Conf | 2/7/2018 | 54 |
| Human Factors - Road User Needs, Capabilities & Limitations | Video Conf | 2/8/2018 | 45 |
| Pipe Repair & Lining Strategies | Webinar | 2/9/2018 | 74 |
| MPC Research: Cell Phone Use Diminishes Self-Awareness of the Adverse Effects of Cell Phone Use on Driving | Webinar | 2/14/2018 | 30 |
| Construction Site SWPPP Compliance, Tools, Tricks, & Tips | Webinar | 2/15/2018 | 127 |
| Polyvinyl Chloride (PVC) Pipe | Webinar | 2/16/2018 | 15 |
| Pavement Striping | Video Conf | 2/20/2018 | 130 |
| Introduction to Highway Lighting | Video Conf | 2/22/2018 | 48 |
| Smart Work Zones | Webinar | 2/23/2018 | 55 |
| Guardrail Selection, Installation, Maintenance & End Treatments | Webinar | 2/26/2018 | 69 |
| PE Exam Preparation | Webinar | 2/27/-4/10/2018 | 22 |
| Ethics (Engineering & Business) | Webinar | 3/7/2018 | 60 |
| Roundabouts -- State of the Practice | Video Conf | 3/8/2018 | 70 |
| Bridge Preservation by Design - Consideration of Zinc Coated Rebar | Webinar | 3/12/2018 | 31 |
| Hydraulic Systems on Maintenance Equipment | Video Conf | 3/13/2018 | 50 |
| Nature Tales: Clues to Help in Roadway Design & Maintenance | Video Conf | 3/13/2018 | 24 |
| Bridge Paint Inspection | Video Conf | 3/14/2018 | 34 |
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| **Presentation Title** |  **Delivery Method** | **Date** | **# Attended** |

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| Personal Protective Equipment | Webinar | 3/15/2018 | 46 |
| Tier IV Regeneration & Diesel Exhaust Fluid for Mechanics | Video Conf | 3/15/2018 | 46 |
| Heavy Equipment Preventative Maintenance | Video Conf | 3/27/2018 | 67 |
| Pile Driving Operations for Inspectors | Webinar | 3/28/2018 | 41 |

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 **TOTAL 2040**

**ONLINE MODULES JANUARY THROUGH MARCH 2019**

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| **Title** | **# Completed** |

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| Bridge Construction Inspection: Heavy Equipment | 3 |
| Introduction to NDDOT Construction Automated Records System (CARS) | 1 |
| Materials Testing: Introduction to the Soil-Moisture Density Relationship | 5 |
| Materials Testing: Lightweight Pieces in Aggregate | 3 |
| Materials Testing: Microwave and Oven Methods of Drying Soils | 1 |
| Materials Testing: Proctor Test | 2 |
| Materials Testing: Proctor Test Short Version | 1 |
| Materials Testing: Reducing Aggregate Samples | 1 |
| Materials Testing: Rubber-Balloon Test | 1 |
| Materials Testing: Sand Cone Test | 1 |
| Materials Testing: Sieve Analysis of Fine and Coarse Aggregates | 2 |
| Materials Testing: Speedy Moisture Test | 1 |
| Materials Testing: Wash Test | 2 |
| Road Safety 365: A Safety Course for Local Governments – Module 2: Making Roads Safer | 1 |
| Road Safety 365: A Safety Course for Local Governments – Module 3: Planning for Safety | 1 |
| Seal Coat Module 1: Pavement Preservation, Handbook, Design, & Pay Items | 3 |
| Seal Coat Module 2: Aggregate Requirements & Binders | 2 |
| Seal Coat Module 3: Construction Details, Pavement Markings, Fog Sealing, & What's New | 2 |
| TC3 3D Engineered Models for Construction Series: 3D Engineered Models in Highway Design (Module 3) | 2 |
| TC3 3D Engineered Models for Construction Series: Applications of 3D Engineered Models in Highway Construction and Quality Assurance (Module 4) | 1 |
| TC3 3D Engineered Models for Construction Series: Introduction to 3D Engineered Models for Highway Transportation (Module 1) | 2 |
| TC3 3D Engineered Models for Construction Series: Surveying and 3D Engineered Models (Module 2) | 1 |
| TC3 Basic Construction Surveying: Basic Survey Concept | 1 |
| TC3 Basic Construction Surveying: Intro | 1 |
| TC3 Basic Construction Surveying: Measure & Construct | 1 |
| TC3 Basic Construction Surveying: Survey Mathematics | 1 |
| TC3 Basic Materials for Highway Structure Construction: Introduction | 1 |
| TC3 Basic Materials for Highway Structure Construction: Module 1 | 1 |
| TC3 Basic Materials for Highway Structure Construction: Module 2 | 1 |

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| **Title** | **# Completed** |
| TC3 Basic Materials for Highway Structure Construction: Module 3 | 1 |
| TC3 Best Practices for High Friction Surfaces: Module 1 | 1 |
| TC3 Best Practices for High Friction Surfaces: Module 2 | 1 |
| TC3 Best Practices for High Friction Surfaces: Module 3 | 1 |
| TC3 Best Practices for High Friction Surfaces: Module 4 | 1 |
| TC3 Best Practices for High Friction Surfaces: Module 5 | 1 |
| TC3 Bridge Construction Inspection Safety | 1 |
| TC3 Change Orders, Claims, and Dispute Resolutions | 2 |
| TC3 Concrete Series: Fresh Properties | 1 |
| TC3 Concrete Series: Mix Design Principles | 1 |
| TC3 Concrete Series: Troubleshooting for Concrete Pavements | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 1) | 2 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 2) | 2 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 3) | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 4) | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 5) | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 6) | 1 |
| TC3 Construction Inspection of Structures Series: Rehabilitation and Maintenance of Structures (Module 7) | 1 |
| TC3 Construction Inspection of Structures Series: Substructures (Module 1) | 1 |
| TC3 Construction Inspection of Structures Series: Substructures (Module 2) | 1 |
| TC3 Construction Inspection of Structures Series: Substructures (Module 3) | 1 |
| TC3 Construction Inspection of Structures Series: Substructures (Module 4) | 1 |
| TC3 Construction Inspection of Structures Series: Superstructures (Module 1) | 1 |
| TC3 Construction Inspection of Structures Series: Superstructures (Module 2) | 1 |
| TC3 Construction Inspection of Structures Series: Superstructures (Module 3) | 1 |
| TC3 Construction Inspection of Structures Series: Superstructures (Module 4) | 1 |
| TC3 Construction of PCC Pavement Series: Curing, Sawing, and Joint Sealing (Module 1: Preventing) | 1 |
| TC3 Construction of PCC Pavement Series: Curing, Sawing, and Joint Sealing (Module 2: Sawing) | 1 |
| TC3 Construction of PCC Pavement Series: Curing, Sawing, and Joint Sealing (Module 3: Jt Sealing) | 1 |
| TC3 Construction of PCC Pavement Series: Paving Process | 7 |
| **Title** | **# Completed** |
| TC3 Construction of PCC Pavement Series: Production | 6 |
| TC3 Construction Stormwater Field Guide Training (Module 1) | 1 |
| TC3 Construction Stormwater Field Guide Training (Module 2) | 1 |
| TC3 Construction Stormwater Field Guide Training (Module 3) | 1 |
| TC3 Construction Stormwater Field Guide Training (Module 4) | 1 |
| TC3 Construction Stormwater Field Guide Training (Module 5) | 1 |
| TC3 Earthwork Series: Earth Materials as Engineering Materials | 1 |
| TC3 Earthwork Series: Excavation (Intro) | 1 |
| TC3 Earthwork Series: Excavation (Module 1) | 1 |
| TC3 Earthwork Series: Excavation (Module 2) | 1 |
| TC3 Earthwork Series: Excavation (Module 3) | 1 |
| TC3 Earthwork Series: Excavation (Module 4) | 1 |
| TC3 Ethics in the Transportation Industry (Module 1) | 1 |
| TC3 Ethics in the Transportation Industry (Module 2) | 1 |
| TC3 Flexible Pavement Preservation Treatment Series: Fog Seals | 1 |
| TC3 Flexible Pavement Preservation Treatment Series: Selecting the Right Treatment | 1 |
| TC3 Flexible Pavement Preservation Treatment Series: Slurry Seals | 1 |
| TC3 Hot In Place Recycling (HIR): Module 1 | 1 |
| TC3 Hot In Place Recycling (HIR): Module 2 | 1 |
| TC3 Hot In Place Recycling (HIR): Module 3 | 1 |
| TC3 Inspector Training for Cold In Place Recycling (CIR): Intro | 1 |
| TC3 Inspector Training for Cold In Place Recycling (CIR): Module 1 | 1 |
| TC3 Inspector Training for Cold In Place Recycling (CIR): Module 2 | 1 |
| TC3 Inspector Training for Cold In Place Recycling (CIR): Module 3 | 1 |
| TC3 Maintenance Training Series: Pavement Preservation Program | 1 |
| TC3 Materials Testing: Reducing Aggregate Sampling | 2 |
| TC3 Math Module | 1 |
| TC3 PCC Pavement Preservation Series: Joint Resealing and Crack Sealing | 1 |
| TC3 Plan Reading: Grading Plans | 1 |
| TC3 Plan Reading: Highway Plan Reading Basics | 2 |
| TC3 Testing Self-Consolidating Concrete | 1 |
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| **TOTAL** | **123**  |

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| **Significant Results:**Identifying and delivering technology transfer needs of the DOTs in Montana, North Dakota, South Dakota and Wyoming. Presentations are broadcast through video conferencing or webinars; and online modules available 24/7. This program can reach many individuals to bring significant opportunities to increase knowledge without the need to travel great distances.  |
| **Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that** **might affect the completion of the project within the time, scope and fiscal constraints set forth in the** **agreement, along with recommended solutions to those problems).**None encountered. |