

# OHIO DEPARTMENT OF TRANSPORTATION QUARTERLY RESEARCH REPORT



**For Quarter Ending:** December 31, 2009

**Date Submitted:** February 1, 2010

**Project Title:** Monitoring and Modeling of Pavement Response and Performance

**Research Agency:** Ohio University

**Principal Investigator(s):** Shad Sargand, J. Ludwig Figueroa

**State Job No.:** 134287(0)

**Agreement No.:** 21182

**Federal Contract No.:** TPF-5(121)

**Project Start Date:** May 1, 2006

**Contract Funds Approved:** \$1,434,958.06

**Project Completion Date:** May 1, 2012 (72 months)

**Spent and Encumbered To Date:** \$1,390,632.65

96.91% Funds Expended

70% Work Done

61.1% Time Expired (44 months)

**List the Technical Liaisons and other individuals who should receive copies of this report:** Roger Green, Aric Morse

## SUMMARY OF PROGRESS FOR QUARTER

- Completed second draft report and submitted in October.
- Complete installation of strain gauges on I90, Syracuse NY. Also installed weather station
- Collected FWD data on I90
- Collected Environmental response data from I90
- Collected FWD data on I86 Angelica NY
- Analyzed FWD data collected in previous quarter.

**PROPOSED WORK FOR NEW QUARTER:**

- Revise the second draft report for Ohio tasks when returned from ODOT.
- Analysis of data collected this quarter
- Continue to collect weather station data and environmental response data in NY

**IMPLEMENTATION (if any):**

None

**PROBLEMS & RECOMMENDED SOLUTIONS (if applicable):**

- Instrumentation box was damaged by accident on NY I86 (Cuba). The box needs to be replaced by NYSDOT. The data acquisition systems housed in the box were sent for repairs.

**EQUIPMENT PURCHASED (if any):**

- Sensors and weather station for instrumentation of NY I90

**CONTACTS & MEETINGS (if any):**

Regular meetings with construction and NYSDOT officials concerning instrumentation and testing.

Professor Sargand met with Juliàn Bendaña at the International Conference on Perpetual Pavement, September 30-October 2.