



**OREGON DEPARTMENT OF TRANSPORTATION**

Research Unit  
200 Hawthorne, Ste., B-240  
Salem, OR 97301

**SPR Quarterly Progress Report**  
October 1, 2005 through December 31, 2005

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**TO:** Technical Advisory Committee Members:  
Cole Mullis, Oregon Department of Transportation  
Bruce Patterson, Oregon Department of Transportation  
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Darrin Neavoll, Oregon Department of Transportation  
Elizabeth Hunt, Oregon Department of Transportation  
Jim Huddleston, Asphalt Paving Association of Oregon  
Anthony Boesen, Federal Highway Administration  
Bud Furber, Pavement Services, Inc.

**FROM:** Norris Shippen, Research Coordinator (ph: (503) 986-3538)

**1. Project**

Mechanistic Pavement Design Input Parameters  
SPR-642

**2. Key Dates**

Start Date for ODOT: October 2005  
Completion Date for ODOT: June 2007

**3. Principal Investigator**

Todd V. Scholz, Ph.D., P.E.  
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**4. Progress**

- Task 1 – A literature review has been conducted to develop a list of candidate backcalculation software programs for use by ODOT as well as to obtain information for evaluating the candidate programs. The candidate programs have been given an initial ranking as to their potential relevancy for this project. A draft evaluation plan has been developed.

- Task 2 – Investigation of the climatic data needs for the M-E Design guide and potential sources of climate data in Oregon has been initiated.

**5. Problems**

- None.

**6. Work Planned for Next Quarter**

- Complete Task 1 (Backcalculation Software)
- Continue work on Task 2 (Climatic Data)
- Initiate FWD testing and monthly data collection (Task 5)

**7. Finances**

SPR Project Summary:

VENDOR	FY'06	FY'07	FY'08	TOTALS
ORIGINAL BUDGET				\$ -
REVISED BUDGET	\$ 55,667	\$ 51,333	\$ -	\$ 107,000
EXPENDITURES - VENDOR	\$ 4,988	\$ (4,988)	\$ -	\$ -
BALANCE	\$ 50,679	\$ 56,321	\$ -	\$ 107,000
ODOT	FY'06	FY'07	FY'08	TOTALS
ORIGINAL BUDGET	\$ 40,000	\$ 80,000	\$ 40,000	\$ 160,000
REVISED BUDGET	\$ 45,333	\$ 9,250	\$ 0	\$ 54,583
EXPENDITURES - ODOT	\$ 809	\$ -	\$ -	\$ 809
BALANCE	\$ 44,524	\$ 9,250	\$ 0	\$ 53,774
PROJECT	FY'06	FY'07	FY'08	TOTALS
ORIGINAL BUDGET	\$ 40,000	\$ 80,000	\$ 40,000	\$ 160,000
REVISED BUDGET	\$ 101,000	\$ 60,583	\$ 0	\$ 161,583
EXPENDITURES - PROJECT	\$ 5,797	\$ (4,988)	\$ -	\$ 809
BALANCE	\$ 95,203	\$ 65,571	\$ 0	\$ 160,774