

University of New Mexico
Department of Civil Engineering

45th Paving and Transportation Conference 2008

January 7-8, 2008
Albuquerque, New Mexico, USA

Volume 1 of 2

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

ISBN: 978-1-60560-636-1

Some format issues inherent in the e-media version may also appear in this print version.

Copyright (2008) by University of New Mexico
Department of Civil Engineering
All rights reserved.

For permission requests, please contact the Department of Civil Engineering
at the address below.

University of New Mexico
Department of Civil Engineering
MSC01 1070
Albuquerque, New Mexico 87131

TABLE OF CONTENTS

Volume 1

Bridges and Safety	1
<i>J. Hall</i>	
A Sense of Urgency America’s Aging Infrastructure	30
<i>B. Wlaschin</i>	
House Memorial 35 Transportation Technical Committee	57
<i>A. Rutter</i>	
2007 Best Materials Testing Laboratory Awards	77
<i>N/A</i>	
2007 Pavement Smoothness Awards	81
<i>N/A</i>	
Blazing the Trail to a Safer New Mexico	90
<i>M.F. Cuddy</i>	
NMDOT 5% Report	107
<i>T.P. Haas</i>	
Road Safety Assessment NM 30 Through Santa Clara Pueblo	117
<i>A. Ho</i>	
Trial Formulations of Antistripping Additives in a Tropical HMA Test Road	147
<i>U. Bagampadde, B.M. Kiggundu</i>	
Real-time Capturing of Micro-crack Propagation in Notched Asphalt Concrete Samples	161
<i>E.M.C. Kias</i>	
21st Century Evaluation and Design of Flexible Pavements	190
<i>J. Tenison</i>	
Utilizing Reclaimed Asphalt Pavement: A National Perspective	228
<i>A. Copeland</i>	
NCHRP Project 20-5, Topic 38-06: Pre-Overlay Treatment of Existing Pavements	262
<i>J. Tenison, D. Hanson</i>	
Redesigning Central Avenue in the Nob Hill/Highland Area: A Context Sensitive Approach	295
<i>J.M. Diasa</i>	
Rethinking Albuquerque Street Design	340
<i>P. Donahue</i>	
FHWA Mobile Concrete Laboratory: Bringing Technology to You	370
<i>G.J. Kurgan</i>	
Doing Your Homework for Maturity Meters	409
<i>M. Ross</i>	

Volume 2

Alternate Pavement Bidding in Missouri	458
<i>J. Donahue</i>	
Concrete Maintenance Problems and Repairs	501
<i>R. Youngman</i>	
Expanding Capacity on Union Pacific’s Sunset Route	642
<i>G. Luennenborg</i>	

National Rail Freight Infrastructure Capacity and Investment Study	670
<i>R.T. Schiller</i>	
Railroad Quiet Zones	693
<i>M. Wylie</i>	
Rail Runner Service to Santa Fe from Concept to Implementation: Overcoming Challenges	711
<i>D. Pennington</i>	
Getting the Elephant Up on Its Feet: Development of the I-25/Paseo del Norte Transportation Project	749
<i>P. Lindberg</i>	
Systems Engineering: Requirements and Guidance for ITS projects in New Mexico	809
<i>R. Fijol</i>	
Bicycle Boulevards in Albuquerque: A Local Story with a “Silver” Lining	825
<i>R. Penttila</i>	
Public-Private Partnerships: Evaluating ESALs for the Long-Term Pavement and Structures Warranties for US550 in Northern New Mexico	844
<i>R. Fijol</i>	
Design Creativity & CSS	864
<i>J. Nitzel</i>	
Forty-Fifth Paving and Transport Conference Registrants	890
<i>N/A</i>	

Author Index