

Final Program

Monday, August 14 2006

7:30 - 8:30	Breakfast	Room 200
8:30 - 10:00	Opening Ceremony	Room 2000
10:00 - 10:30	Coffee Break	
10:30 - 12:00	Keynote address 1 PAVEMENT CRACKING: MECHANISMS, ANALYSIS, AND MITIGATION Reynaldo (Rey) Roque, University of Florida, USA	Room 2000
12:00 - 13:30	Lunch	Room 200
13:30 - 15:00	Parallel Sessions 1	
	Session 1A	Room 2000
13:30	1.1 - 2 EVALUATION AND CHALLENGES OF THE FLOW NUMBER SIMPLE PERFORMANCE TEST Bevan Sullivan, Pavement Management Services, Australia	
13:50	1.1 - 3 DEVELOPMENT OF A NEW ASPHALT MIX DESIGN SYSTEM IN NORWAY Bjørn Ove Lerfald, SINTEF, Norway	
14:10	1.1 - 4 AGGREGATE QUALITY AND THE INFLUENCE ON THE RUTTING IN ASPHALT PAVEMENTS Ivar Horvli, NTNU, Norway	
14:30	1.1 - 5 COMPARISON OF FIELD AND LABORATORY COMPACTED ASPHALT MIXTURES Gordon Airey, University of Nottingham, United Kingdom	
14:50	Q & A Period	
	Session 1B	Room 202
13:30	1.3 - 6 CURRENT STATE OF POROUS ASPHALT IN SWITZERLAND Lily Poulidakos, EMPA, Switzerland	

13:50 5.6 - 7
DEVELOPMENT OF SUSTAINABLE THIN NOISE REDUCING
SURFACE LAYERS IN DENMARK
Hans Ertman Larsen, Danish Road Institute, Denmark

14:10 1.5 - 8
NOISE REDUCING ASPHALT PAVEMENTS: A CANADIAN CASE
STUDY
Susan Tighe, University of Waterloo, Canada

14:30 4.7 - 9
INFLUENCE OF TEXTURE ON TIRE/PAVEMENT NOISE
Alan Carter, École de technologie supérieure, Canada

14:50 Q & A Period

Session 1C

Room 203

13:30 2.1 - 10
VISCO-ELASTIC MODELLING FOR ASPHALT PAVEMENTS –
SOFTWARE VISCOROUTE
Armelle Chabot, LCPC, France

13:50 2.1 - 11
HIPAVE – A TOOL TO ASSIST IN THE MECHANISTIC EMPIRICAL
DESIGN OF HEAVY DUTY INDUSTRIAL FLEXIBLE PAVEMENTS
Ian Rickards, Pioneer Road Services Pty Ltd, Australia

14:10 2.1 - 12
TEMPERATURE DISTRIBUTION PREDICTION MODEL FOR ASPHALT
PAVEMENTS
Lijun Sun, Tongji University, China

14:30 2.1 - 13
DEVELOPMENTS FOR A PRACTICAL APPROACH TO
ANALYTICALLY-BASED DESIGN OF ASPHALT PAVEMENTS
Stephen Brown, Nottingham Centre for Pavement Engineering, United
Kingdom

14:50 Q & A Period

Session 1D

Room 204AB

13:30 3.1 - 14
LONG TERM PERFORMANCE OF THE JAMES BAY SPECIALIZED
HAUL ROUTE IN NORTHERN QUEBEC
Donaldson MacLeod, Public Works and Government Services Canada, Canada

13:50	3.1 - 15 LONG TERM PAVEMENT PERFORMANCE ON NORWEGIAN ASPHALT RUNWAYS – A FIELD AND LABORATORY STUDY Joralf Aurstad, Norwegian Public Roads Administration, Norway	
14:10	1.1 - 16 FLEXIBLE PAVEMENT AND SOIL BEHAVIOR IN A RESTORED PAVEMENT CUT Alireza Bayat, University of Waterloo, Canada	
14:30	3.1 - 17 PILOT PROJECT OF LIFETIME DESIGN OF ASPHALT CONCRETE IN FINNISH ROAD ADMINISTRATION Seppo Makinen, Finnish Road Administration, Finland	
14:50	Q & A Period	
	Session 1E	Room 205AB
13:30	3.1 - 18 IN-SITU DYNAMIC RESPONSE OF ASPHALT PAVEMENT CONTAINING A HYDRAULIC, GRADED IRON AND STEEL SLAG BASE-COURSE Nobuyuki Yoshida, Kobe University, Japan	
13:50	4.3 - 19 DEVELOPMENT AND VERIFICATION OF THE IN-SITU SHEAR STIFFNESS TEST FACILITY Abd El Halim Abd El Halim, Carleton University, Canada	
14:10	4.3 - 20 IMPACT ECHO METHOD APPLIED ON BITUMINOUS MATERIALS Jean-Michel Simonin, LCPC, France	
14:30	4.2 - 21 USING DEFLECTION ENERGY DISSIPATION FOR PREDICTING RUTTING Jan Hansson, Department of GEOEngineering, Sweden	
14:50	Q & A Period	
15:00 - 15:30	Coffee Break	
15:30 - 17:00	Parallel Sessions 2	
	Session 2A	Room 2000
	1.3 - 22	

- 15:30 DETERMINATION OF MATERIAL PROPERTIES OF BITUMEN STABILISED MATERIALS USING TRI-AXIAL TESTING
Lucas-Jan Ebels, University of Stellenbosch, South Africa
- 1.3 - 23
- 15:50 THREE-DIMENSIONAL VISCOPLASTIC CHARACTERIZATION OF ASPHALT CONCRETE UTILIZING PERZYNA AND HISS METHODOLOGIES
Charles Schwartz, University of Maryland, USA
- 1.3 - 24
- 16:10 OVERLAY TESTER: A SIMPLE AND RAPID SCREENING TEST FOR CHARACTERIZING CRACK RESISTANCE OF HMA MIXES
Fujie Zhou, Texas Transportation Institute, USA
- 1.3 - 25
- 16:30 FRACTURE AND FATIGUE STRENGTH OF GROUTED MACADAMS
Nick Thom, University of Nottingham, United Kingdom

16:50 Q & A Period

Session 2B

Room 202

- 1.2 - 26
- 15:30 INNOVATIVE SURFACINGS: WHAT'S NEW IN NEW ZEALAND?
David Faulkner, Fulton Hogan, New Zealand
- 1.2 - 27
- 15:50 REFINEMENT OF MIX DESIGN CRITERIA FOR 4.75MM SUPERPAVE MIXES
Randy West, National Center for Asphalt Technology, USA
- 1.2 - 28
- 16:10 CHIP SEALING SYSTEMS: IMPROVING EARLY AGE CHIP RETENTION
Anton Kucharek, McAsphalt Industries Limited, Canada
- 5.7 - 29
- 16:30 SURFACE TREATMENTS IN ASPHALT PAVEMENTS - A SYSTEMS VIEW
Sanjaya Senadheera, Texas Tech University, USA
- 16:50 Q & A Period

Session 2C

Room 203

- 2.2 - 30
- 15:30 SENSITIVITY OF THERMAL CRACKING PREDICTION TO AC MIXTURE PROPERTIES USING THE M-E PAVEMENT DESIGN GUIDE

Shelley Stoffels, Pennsylvania State University, USA

- 15:50 1.5 - 31
DEVELOPMENT OF THREE-LAYERED HMA COMPOSITE
Baoshan Huang, The University of Tennessee, USA
- 16:10 2.2 - 32
APPLICATION OF THE NEW M-E PAVEMENT DESIGN GUIDE
SOFTWARE FOR FATIGUE CHARACTERIZATION OF THREE TEXAS
ASPHALT MIXTURES
Robert Lytton, Texas A&M University, USA
- 16:30 2.2 - 33
MECHANISTIC-EMPIRICAL DESIGN GUIDE ANALYSIS OF ASPHALT
PAVEMENTS WITH GRANULAR BASE COURSE
Mustaque Hossain, Kansas State University, USA
- 16:50 Q & A Period

Session 2D

Room 204AB

- 15:30 3.2 - 34
RELATING INITIAL STRUCTURAL RESPONSE TO HEAVY AIRCRAFT
PAVEMENT PERFORMANCE TEST DATA
Marshall Thompson, University of Illinois, USA
- 15:50 3.2 - 35
TRAFFIC TESTING RESULTS FROM CC3 FLEXIBLE PAVEMENTS AT
THE FAA'S NAPTF
Navneet Garg, SRA International, Inc., USA
- 16:10 3.2 - 36
EVALUATION OF STONE AND RAP INTERLAYERS UNDER
ACCELERATED LOADING
Louay Mohammad, Louisiana State University, USA
- 16:30 3.2 - 37
CALIBRATION OF MECHANISTIC-EMPIRICAL MODELS USING THE
CALIFORNIA HEAVY VEHICLE SIMULATORS
Per Ullidtz, Dynatest International, Denmark
- 16:50 Q & A Period

Session 2E

Room 205AB

- 15:30 4.1 - 38
DYNAMIC BACKCALCULATION OF PAVEMENT LAYER
PARAMETERS USING FREQUENCY AND TIME DOMAIN METHODS
Karim Chatti, Michigan State University, USA

- 15:50 4.1 - 39
AN IMPROVED ALGORITHM FOR THE BACKCALCULATION OF
PAVEMENT LAYER STIFFNESS
Jeremy Lea, University of California, Davis, USA
- 16:10 4.1 - 40
RECENT DEVELOPMENTS AND TRENDS OF BACKCALCULATING
PAVEMENT LAYER PROPERTIES FROM FALLING WEIGHT
DEFLECTOMETER DATA
Carl Lenngren, Chalmers University of Technology, Sweden
- 16:30 4.1 - 41
IN-SITU LAYER MODULI OF PAVEMENTS USING
NONDESTRUCTIVE TESTING:A CASE STUDY
Mohammad Khattak, University of Louisiana at Lafayette, USA
- 16:50 Q & A Period
- 19:00 Cocktail - Musée de la Civilisation