


SEAUPG 2002 CONFERENCE

 **NCAT**
ACTIVITIES
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NCAT ACTIVITIES

- TEST TRACK
- PERFORMANCE TESTING
- TRAINING AND EDUCATION
- ANGLE VERIFICATION KIT
- NMAVS VS. DENSITY, PERMEABILITY
- DENSIFICATION OF HMA
- DENSITY MEASUREMENT
- PERPETUAL PAVEMENTS
- FRICTION AND NOISE
- SOUTHEAST SUPERPAVE CENTER
- ASPHALT TECHNOLOGY NEWS

TEST TRACK



TEST TRACK TRUCKING



TEST TRACK

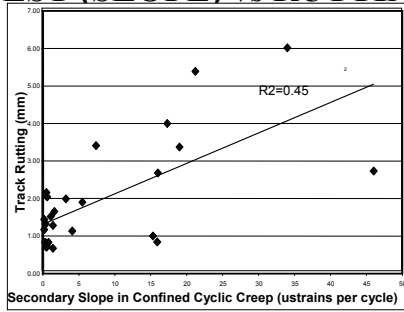
- CONSTRUCTION FINISHED IN 2000
- TRAFFIC WILL BE COMPLETED IN DECEMBER 2002
- CONFERENCE TO PRESENT RESULTS HELD LAST WEEK AT NCAT
- RECONSTRUCTION NEXT YEAR

PERFORMANCE TESTING

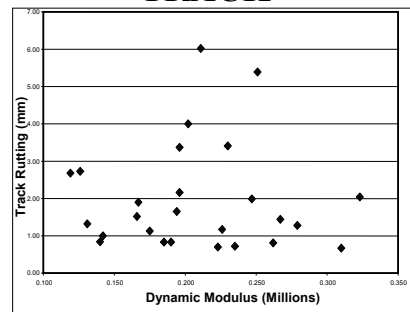
- SUPPLIED TEST TRACK SAMPLES TO NCHRP 9-19
- EVALUATED POTENTIAL (IN LABORATORY AND AT TEST TRACK) FOR A NUMBER OF TESTS TO PREDICT PERFORMANCE

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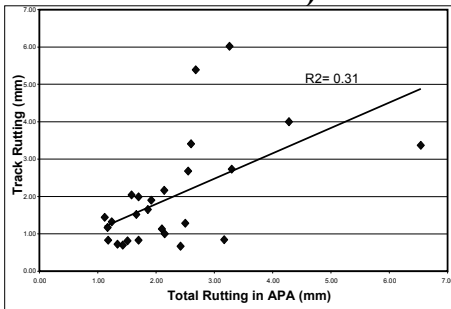
CONFINED REPEATED LOAD TEST (SLOPE) vs RUTTING



DYNAMIC MODULUS vs TRACK



APA vs TRACK (TOTAL RUTTING)



TRAINING AND EDUCATION

- SHORT COURSES AT NCAT, DOTs, AND OTHER LOCATIONS
- PROFESSOR TRAINING COURSE
- GRADUATE PROGRAM
- TRAINING CD----SUPERPAVE FOR THE UNDERGRADUATE

PROFESSOR TRAINING COURSE



ANGLE VERIFICATION

- COMPLETED TESTS IN ALABAMA
- ANGLE EXPLAINS MUCH OF DIFFERENCE BETWEEN COMPACTORS
- NEED PROCEDURE TO CORRECT FOR ANGLE
- MOLD WEAR CAN BE A PROBLEM

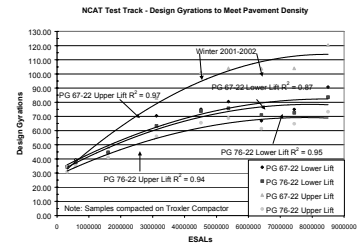
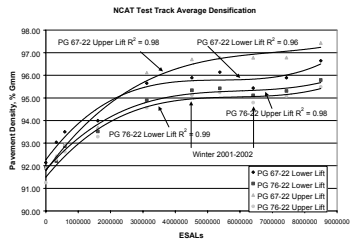
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NMAS VS LAYER THICKNESS, DENSITY, PERMEABILITY

- NCHRP 9-27
- FIELD WORK---COMPARE NMAS, THICKNESS, DENSITY, AND PERMEABILITY
- LAB WORK---PREPARE SAMPLES TO EVALUATE SAME PROPERTIES AS FIELD WORK
- LAYER THICKNESS VS. DENSITY

DENSIFICATION OF HMA

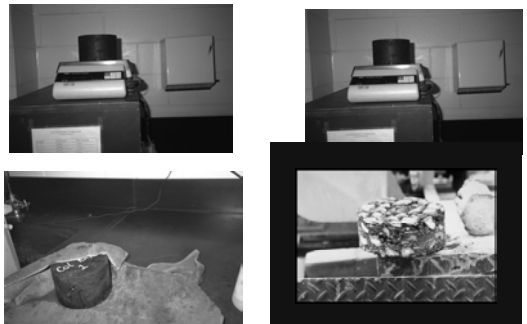
- NCHRP 9-9 (1)
- MONITOR IN-PLACE DENSITY WITH TIME AND TRAFFIC
- GRADE OF AC, TRAFFIC, AND DEPTH OF LAYER AFFECT DENSITY



FACTORS AFFECTING DENSITY MEASUREMENT

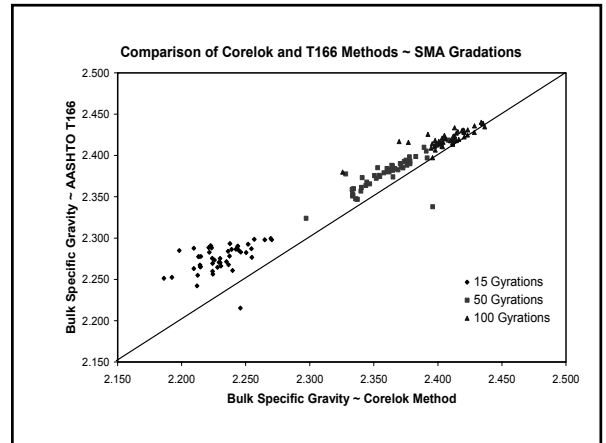
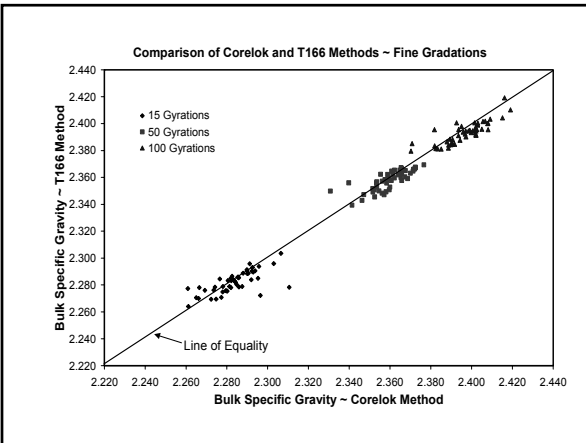
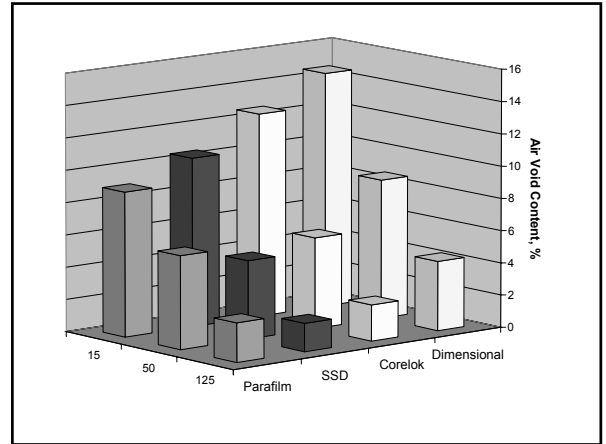
- TEST METHOD
- POROSITY
- SURFACE TEXTURE

SSD PROCEDURE



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CORELOK METHOD



PERPETUAL PAVEMENTS

- LONGER LASTING SURFACES
- PAVEMENTS THAT ONLY REQUIRE MILL AND OVERLAY
- SHOULD IMPROVE LIFE-CYCLE COSTS
- RECOGNITION OF PAVEMENTS THAT MEET REQUIREMENTS FOR PERPETUAL PAVEMENTS
- ENDURANCE LIMIT
- TOP DOWN CRACKING

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GRIP TESTER



GRIP TESTER



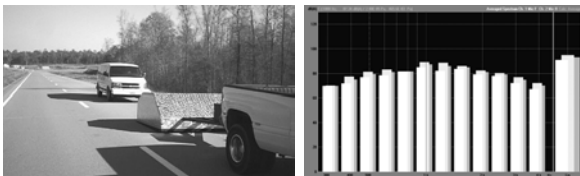
GRIP TESTER



NOISE TRAILER



NOISE TESTING



SOUTHEAST SUPERPAVE CENTER

- TRAINING
- RESEARCH
- SUPERPAVE NEWSLETTER

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ASPHALT TECHNOLOGY NEWS

- **UPDATE ON IMPORTANT RESEARCH PROJECTS**
- **PRACTICAL PAPERS**
- **GENERAL STORIES**
- **QUESTIONS AND ANSWERS**

OTHER ITEMS BEING EVALUATED

- **VERIFY NO. OF GYRATIONS FOR SMA AND SUPERPAVE**
- **4.75mm MIXES**
- **MOISTURE SUSCEPTIBILITY**
- **BOND TEST**
- **SPECIFIC GRAVITY OF FINE AGGREGATE**
- **LABORATORY POLISHING TEST**
- **VERIFY NEW OGFC MIX DESIGN PROCEDURE**