

# SEAUPG 2003 CONFERENCE

## EVOLUTION of SUPERPAVE FLORIDA'S PERSPECTIVE

Gale Page

State Flexible Pavement Materials Engineer

*"You sir are inebriated with the exuberance of your own verbosity" Disraeli*

## THE EARLY DAYS

- Involvement in the Research 1986-1993
  - Shape and direct
- Understand the Product
  - Still asphalt, aggregate, air voids
  - New lab compactor
- Initial Specifications
  - New Superpave mix design
  - Existing Marshall construction criteria

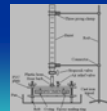
## IMPLEMENTATION

- Have a Plan
  - Work with contractors, material suppliers
  - Change portions of existing jobs
  - Share data and information
- Administrative Decision
  - Implement on all Interstate projects
  - Coarse grade for high traffic



## WHAT WE LEARNED

- RAP Can Be Used
  - Used on first Superpave project
  - Standard PG binders under 30% RAP
- Difference between Coarse & Fine
  - Permeability
  - Lift thickness +1/2 to 3/4 inch
  - Density +1.5% Gmm



## WHAT WE LEARNED

- Density Measurement
  - Cores for acceptance
- Field Control of Air Voids
  - Most difficult to implement
  - Biggest benefit to performance
  - Florida battles high P200



## WHAT WE LEARNED

- Moisture Sensitivity Testing
  - AASHTO T 283 part of Superpave
  - False positives with absorptive limestones
- Benefit of Polymer Modifiers
  - Significant improvement in rutting
  - UF research shows benefit in cracking



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## CONTRACTOR TESTS FOR ACCEPTANCE

- Next Step in Florida
- Ownership of Test Data
- Raise Knowledge Level of All
- Use PWL in Acceptance
- Holes in the System Will Be Found



## ISSUES USING PWL

- Set Tolerances Using Real Test Data
  - Key to acceptance of PWL in FL
- Real Statistics Needs Lots of Data
  - Multilevel checks and balances
- Carry Over of LOTs
- Normal Test Variability is High

## CHALLENGE for the FUTURE

- Need Real & Simple Performance Tests
- Reduce Standard Test Variability
- Improve Confidence in Contractor Tests
- New Electronic Data Entry Systems
  - Simple, straight forward
  - Real time, web based



Thank-you...Questions?