UNIVERSITY OF MISSISSIPPI - DEPARTMENT OF CIVIL ENGINEERING

ASPHALT LABORATORY TEST FACILITIES Carrier Hall 120D, 123A, 121H

Superpave Binder Test Equipment (MDOT Grant)
1. Dynamic Shear Rheometer Test (at high service temperature)
2. Bending Beam Rheometer Test (at low service temperature)
3. Brookfield Viscometer Test (Binder creep compliance data analysis)
4. Rolling Thin Film Oven Test (Binder aging)
5. Pressure Aging Vessel Test (Long-term binder aging simulation)

Asphalt Mix Test Equipment
• Superpave Gyratory Compactor (MDOT Grant)
  (mix design test)

• Gyration Test Machine (MDOT Donation)
  (mix design test)

• Asphalt Dynamic Testing Machine (FHWA Grant)
  Environmental Controlled Closed Loop Test System
  (Resilient Modulus, Indirect Tensile Strength, Creep Compliance, and Fatigue Tests)

Dr. Uddin’s Teaching and Related Courses:
• CE315 (CE Materials), ENGR597 (Superpave Asphalt Technology), CE417 (Construction Management)
• MS (Ricalde, 2000), MS (Yamini, 2001), PhD (Garza, Spring 2003)

Dr. Uddin’s Related Research Projects
• Automated DCP Data Analysis Software for Generating Subgrade Layer Thickness and In Situ Modulus Profile (1999-2000) – MDOT Subgrade Study (Report FHWA/MS-DOT-RD-00-131)

Publications