PROJECT OVERVIEW REPORT

1. Center Identifying Number
   192 RU8485

2. Project Title
   Rutgers Pavement Resource Center – Ride Quality Tools

3. Principal Investigator
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5. Project Description
   In the past year, the Pavement Technology Unit has been inundated with requests from contractors to provide International Roughness Index (IRI) testing during various construction phases. With the release of the NJDOT Ride Quality specification, contractors can receive a financial penalty or bonus depending on the IRI values of the pavement surface after the final surface course has been placed and compacted. However, many of these contractors have been asking for testing of the intermediate layers during construction, in an attempt to validate the smoothness of these layers prior to placement of the final surface layer. In an effort to support these requests and improve the final pavement smoothness, the Pavement Technology Unit has requested the evaluation and implementation of portable walk-behind pavement surface profile measurement devices that can determine the IRI of intermediate units as requested. After evaluation, the selected portable walk-behind pavement surface profile measurement device will be recommended and implemented by the NJDOT Regional offices to provide on-site support to the asphalt industry.

6. Dates and Budget
   Start date: 9/1/2006
   End date: 12/31/2008
   Total Dollars: $700,000

7. Keywords
   Pavement, ride quality, international roughness index IRI, profile, pavement surface