1. Center Identifying Number  
   194 RU8486

2. Project Title  
   Pavement Resource Center – Overhaul Pavement Management System

3. Principal Investigator  
   Dr. Ali Maher  
   Center for Advanced Infrastructure and Transportation (CAIT)  
   Rutgers University  
   100 Brett Rd. Piscataway, NJ 08854-8058

4. NJDOT Principal  
   Sue Gresavage  
   New Jersey Department of Transportation  
   1035 Parkway Ave. Trenton, NJ 08625

5. Project Description  
   The primary objective of the 2006 RPRC program is to utilize the extensive laboratory and field pavement testing equipment and staff expertise of the Rutgers Pavement Resource Center to assist the New Jersey Department of Transportation in developing a pavement management strategy that optimizes network condition with available capital resources. The primary goals of this proposal are enhancement of the NJDOT's Pavement Management System, and ongoing support for implementation of Mechanistic-Empirical Pavement Design as needed to support the Department’s pavement investments, currently $280 million.

   The condition of New Jersey’s pavement has declined steadily over the past decade as available resources have been committed to other needs. The significant backlog of pavement maintenance has resulted in significant increase in vehicle operating costs to NJ motorists, reportedly twice the national average. A new approach to pavement management utilizing the latest technology is needed to help restore New Jersey’s highway infrastructure to a state of good repair with limited available resources. The Rutgers Pavement Resource Center is an extension of the NJDOT Pavement Technology Unit and functions as the primary research and technology arm. It is organized to rapidly respond to the Department’s need for implementation of advanced pavement evaluation and asset management technologies. The products identified in this proposal will include asset management tools, database hardware design and storage architecture, material testing and evaluation, validation and implementation of new technologies, methodologies and materials. The program will work closely with NJDOT staff and its consultants to fulfill its mission.

   The proposed services to be provided by the joint NJDOT/Rutgers pavement engineering program will include field and laboratory testing and evaluation,
development of advanced pavement information systems, and specialized training/educational programs for NJDOT and its consulting pavement engineers.

6. Dates and Budget
   Start date: 9/1/2006
   End date: 12/31/2008
   Total Dollars: $1,300,000

7. Keywords
   Pavement management system, pavement, mechanistic, asset management, materials