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## **2011 LTRC Seminar Series - Chip Seal Pavement Construction Seminar Preliminary Program**

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Consulting Engineer

Tuesday, February 1, 2011

9:00am - 4:00pm

Country Inn and Suites/Pineville Convention Center  
2727 Monroe Highway 165, Pineville, LA 71360  
[www.countryinns.com/pinevillela](http://www.countryinns.com/pinevillela)

Wednesday, February 2, 2011

9:00am - 4:00pm

Transportation Training and Education Center Auditorium  
4099 Gourrier Avenue, Baton Rouge, LA 70808  
[www.ltrc.lsu.edu](http://www.ltrc.lsu.edu)

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### **A. INTRODUCTION:**

1. Definition of a chip seal pavement surface.
2. Factors affecting chip seal construction.
3. Factors affecting chip seal performance.

### **B. CONDITION OF THE EXISTING PAVEMENT SURFACE:**

1. Need for repair of the existing pavement surface.
2. Uniformity of condition.
3. Dry pavement surfaces.
4. Bleeding pavement surfaces.
5. Bleeding in the wheelpaths only.

### **C. APPLICATION OF THE ASPHALT BINDER:**

1. Type of asphalt binder used.
2. Application rate.
3. Residual rate.
4. Operation of the bituminous distributor.
5. Spray bar and nozzle settings.
6. Calibration of the distributor.
7. Uniform and non-uniform application.

### **D. APPLICATION OF THE COVER AGGREGATE:**

1. Type of cover aggregate.
2. Cleanliness of the cover aggregate.
3. Calculation of the application rate.
4. Calibration of the aggregate spreader.
5. Timing of the aggregate application.
6. Problems with excess aggregate.

### **E. COMPACTION (EMBEDMENT) OF THE COVER AGGREGATE:**

1. Type of rollers used.
2. Timing of the compaction effort.
3. Number of roller passes.

### **F. SWEEPING OF THE COMPACTED CHIP SEAL SURFACE:**

1. Application of traffic to the compacted surface.
2. Timing of the sweeping.
3. Amount of excess aggregate.

### **G. EXAMPLES OF CHIP SEAL CONSTRUCTION:**

1. Examples of poor chip seal construction.
2. Examples of good chip seal construction.