



## **ASCEF Fundamentals of Adhesion Short Course**

**Renaissance Concourse Hotel Atlanta Airport  
Atlanta, Georgia  
November 9-10, 2005**

### **Survey of Adhesion Mechanisms and Polymer Parameters**

Dr. Thomas Ward

### **Surface Energy**

Dr. John Dillard

### **Stresses in Bonded Joints**

Dr. David Dillard

### **Mechanical Response in Polymers**

Dr. Thomas Ward

### **Surface Characterization Analysis**

Dr. John Dillard

### **Fracture in Bonded Joints**

Dr. David Dillard

### **Thermal and Viscoelastic Characteristics of Adhesives**

Dr. Thomas Ward

### **Surface Preparation**

Dr. John Dillard

### **Testing of Adhesive Joints**

Dr. David Dillard

### **Accelerated Testing and Durability**

Dr. Thomas Ward

### **Durability and Design**

Dr. David Dillard

### **Durability Testing and Failure Processes**

Dr. John Dillard