



## CALL FOR PAPERS: ELEVENTH INTERNATIONAL SYMPOSIUM ON **POLYMER SURFACE MODIFICATION**

RELEVANCE TO ADHESION: Homewood Suites by Hilton, at  
Newburgh Stewart International Airport, 180 Breunig Rd., New  
Windsor, NY 12553, USA, JUNE 12-14, 2023

### **SYMPOSIUM HISTORY AND MOTIVATION**

This is the 11th symposium in the series which continues the tradition set by the first in the series entitled: "Polymer Surface Modification: Relevance to Adhesion" which was held in Las Vegas, NV, 1993. As with its predecessors, this symposium will be concerned with the technological areas where surface modification is a key technology which allows for the processing and manufacture of products which would otherwise be unobtainable.

Proper adhesion characteristics are vital to the success of any practical implementation of polymer materials. Though polymers are generally not very adhesionable, careful surface modification can result in greatly improved adhesion without altering bulk properties.

### **AUDIENCE AND PARTICIPATION**

The primary focus of this symposium will be to provide a forum for the discussion of cutting edge advancements in the field and to review and consolidate the accomplishments which have been achieved thus far. This meeting is tailored toward technical professionals working in industry and academia as well as individuals with a need to understand the impact of surface chemistry and physics on their current endeavors.

### **SUBMITTING A PAPER**

This symposium is being organized under the direction of Dr. K. L. Mittal, Editor, Reviews of Adhesion and Adhesives and by MST Conferences. Please notify the conference chairman of your intentions to present a paper as early as possible. An abstract of about 200 words should be sent by May 30, 2023 to the conference chairman by any of the following methods:

E-mail: [rhl@mstconf.com](mailto:rhl@mstconf.com)

FAX: 212-656-1016

Regular mail:

Dr. Robert H. Lacombe  
Conference Chairman  
3 Hammer Drive  
Hopewell Junction, NY 12533

Contact by phone: 845-592-1963

Full conference details and registration via the Internet will be maintained on our web site:

[www.mstconf.com/Surfmod11.htm](http://www.mstconf.com/Surfmod11.htm)

## SYMPOSIUM TOPICS:

AMONG TOPICS TO BE COVERED ARE:

### SURFACE MODIFICATION TECHNIQUES

- ▶ Plasma, ultraviolet, corona, laser, ion beam, atmospheric plasma, flame ...
- ▶ Mechanical roughening
- ▶ Monolayer deposition, grafting and wet chemical

### POLYMER SURFACE MODIFICATION FOR ADHESION IMPROVEMENT OF:

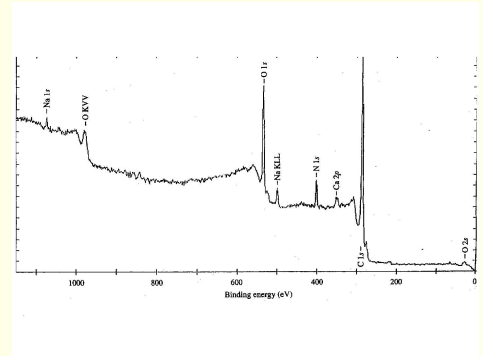
- ▶ Metal layers (metallized plastics)
- ▶ Organic coatings, inks, composites, adhesive joints, microorganisms

### APPLICATIONS AND SURFACE CHARACTERIZATION

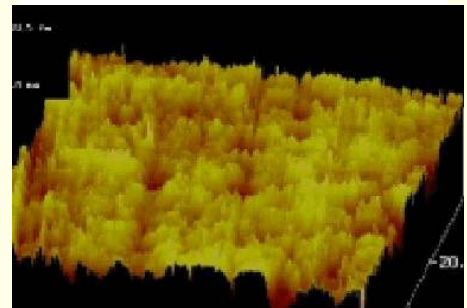
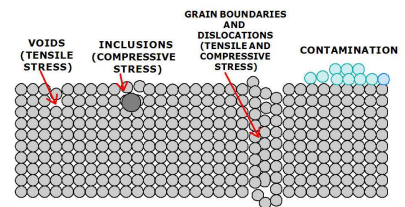
- ▶ Packaging, composites
- ▶ Creating unique surfaces
  - i. Self cleaning fabrics
  - ii. Self cleaning paints
- ▶ Biomedical applications
  - i. implants
  - ii. sterilization
  - iii. improved cell adhesion
- ▶ Microelectronics, aerospace, marine...
- ▶ All methods for characterization of surface chemistry and morphology, (Contact Angle, XPS, SIMS, AFM ...)



Photo courtesy of Plasmatreat



A VARIETY OF DEFECT STRUCTURES AND IMPERFECTIONS MAKE DETERMINING THE SURFACE ENERGY/SURFACE TENSION OF SOLIDS VERY DIFFICULT



## ORGANIZERS AND CONTACT INFORMATION

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