

ADHESION SCIENCE AND TECHNOLOGY COURSE PROGRAMME

2-3 December, 2013, Bled, Slovenia

Monday, 2 December, 2013

- 8.00-9.00 **Registration** (registration desk will also be open on Sunday, 1 December, 2013 from 18.00 to 20.00)
- 9.00-9.15 **Official Opening of the Event**
M. Petrič¹, M. Šernek²
Chairperson: M. Šernek
- 9.15-10.45 **INTRODUCTION TO ADHESION**
K. L. Mittal³
- 10.45-11.00 **Coffee Break**
- 11.00-13.00 **SURFACE CONTAMINATION AND CLEANING**
K. L. Mittal
- 13.00-14.30 **Lunch**
- 14.30-16.00 **THEORIES OR MECHANISMS OF ADHESION**
K. L. Mittal
- 16.00-16.15 **Coffee Break**
- 16.15-17.30 **CONTACT ANGLE, WETTABILITY AND ADHESION**
K. L. Mittal
- 17.30-18.30 **INVESTIGATION OF INTERFACIAL (ACID-BASE) INTERACTIONS USING ESCA (XPS)**
K. L. Mittal
- 18.30-18.35 **Conclusion of the First Day**
M. Šernek
- 20.00 **Course Dinner**

Thursday, 3 December, 2013

- 9.00-9.15 **Opening of Second Day**
Chairperson: M. Petrič
- 9.15-10.45 **POLYMER SURFACE MODIFICATION**
K. L. Mittal
- 10.45-11.00 **Coffee Break**
- 11.00-13.00 **INVITED LECTURES**
- Importance of Adhesive Parameters at the Interface of Filled Composites and Blends**
V. Kovačević⁴
- Surface Free Energy of Wood**
M. Petrič
- Bonding of Wood – Adhesion Aspect**
M. Šernek
- 13.00-14.30 **Lunch**
- 14.30-15.00 **WAYS TO IMPROVE ADHESION OF COATINGS/ADHESIVES**
K. L. Mittal
- 15.00-16.30 **SILANES AND OTHER ADHESION PROMOTERS**
K. L. Mittal
- 16.30-16.45 **Coffee Break**
- 16.45-17.45 **ADHESION ASPECTS OF THIN FILMS (INCLUDING METALLIZED PLASTICS)**
K. L. Mittal
- 17.45-18.30 **ADHESION MEASUREMENT TECHNIQUES**
K. L. Mittal
- 18.30-18.35 **Closing of the Event**
M. Petrič

- 1 Prof. Dr. Marko Petrič, University of Ljubljana, Biotechnical Faculty, Department of Wood Science & Technology, Jamnikarjeva 101, 1000 Ljubljana, Slovenia, e-mail: marko.petric@bf.uni-lj.si
- 2 Prof. Dr. Milan Šernek, University of Ljubljana, Biotechnical Faculty, Department of Wood Science & Technology, Jamnikarjeva 101, 1000 Ljubljana, Slovenia, e-mail: milan.sernek@bf.uni-lj.si
- 3 Dr. Kashmiri L. Mittal, Editor, Reviews of Adhesion and Adhesives. 1983 Route 52, Suite C, P.O. Box 1280, Hopewell Junction, NY 12533-1280, U.S.A.
- 4 Prof. Dr. Vera Kovačević, University of Zagreb, Faculty of Chemical Engineering and Technology, Department of Surface Engineering of Polymer Materials, Savska 16, HR-10000 Zagreb, Croatia, e-mail: vkovac@fkit.hr