Exercise 3

To be discussed on 13.11.2018

1.)
Discuss different methods of joining two surfaces.

- What are the fundamentals of adhesion? Which types of bonding are involved in the adhesion process?
- Explain how pre-treatments of the respective surfaces can improve adhesive joints.

2.)
Mechanical properties of a material can change depending on surrounding conditions. Give two examples where this change of mechanical properties has useful applications.

3.)
How does the humidity influence the adhesion processes for pressure sensitive adhesives (PSAs)? Discuss how a PSA might be achieved which is suitable for application in water.