



Workshop „Biodegradable polymers / composites: properties & applications for different applications”.

Prowadząca: Prof. Dr. Funda Tihminlioglu, Izmir Institute of Technology,
Department of Chemical Engineering, 35430 Turkey
fundatihminlioglu@iyte.edu.tr

Biodegradable polymers are being drawn attention of many researchers especially because of their petroleum independent sources and eco-friendliness. Most of biodegradable polymers are synthesized from microorganisms or extracted directly from biomass. Their incomparably shorter degradation in the nature than the conventional synthetic polymers makes them attractive for different applications. This course will give the overview of the biodegradable polymer based materials and their applications in different fields such as food packaging, coating, and biomaterial applications.

The first part of the lecture includes polymer and structure –property relationships and the second part mostly concentrates on biodegradable polymer/nanocomposites in packaging/coating and biomaterial applications including tissue engineering and drug delivery.

The table of content of the course as follows:

I. Polymer Science

- a. The nature of Polymer Materials and Polymer Microstructure
- b. Structure- Property relationship
- c. Crystallization, Melting, and the Glass Transition

II. Biodegradable Polymers/Composites/ Nanocomposites

- a. Films/coatings for food packagings and barrier coating applications
- b. Scaffolds/Micro/Nanospheres for biomaterials applications

TERMINY ZAJĘĆ			
Data	Dz. Tyg.	Godzina	Sala
21 września 2015	Pn	9.00-12.00	119 (Chemia A)
22 września 2015	Wt	9.00-12.00	119 (Chemia A)
23 września 2015	Śr	9.00-12.00	119 (Chemia A)
24 września 2015	Cz	9.00-12.00	119 (Chemia A)
25 września 2015	Pt	9.00-12.00	119 (Chemia A)