



Synthesis and recycling of advanced polymeric materials

Lecturer: Prof. Juan Francisco Rodriguez Romero (Castilla-La Mancha University,
Spain)

Course description:

Three main topics: Synthesis of microcapsules containing phase change materials (PCMs). Synthesis of polymeric biocompatible materials for controlled drug delivery by means of supercritical technology. Polystyrene wastes recycling using terpenic solvents and high pressure technologies.

Syllabus of the lecture:

1. Synthesis of microcapsules containing phase change materials (PCMs)
 - 1.1. Applications of PCMs
 - 1.2. Encapsulation technique
 - 1.2.1. Spray drying technique
 - 1.2.2. Suspension polymerization
 - 1.3. Development of microencapsulation process
 - 1.3.1. Scale up of microencapsulation process
 - 1.4. Technology of production
 - 1.5. Microencapsulation of extraction agents for the removal of heavy metals from contaminated water
2. Synthesis of polymeric biocompatible materials for controlled drug delivery by means of supercritical technology
 - 2.1 Ring -opening copolymerization in sc CO₂
 - 2.2 Production of biodegradable porous scaffolds impregnated with drugs in supercritical CO₂
3. Polystyrene wastes recycling using terpenic solvents and high pressure technologies

TERMINY WYKŁADÓW			
Data	Dzień tygodnia	Godzina	Sala
13 Styczeń 2014	Poniedziałek	9-12	LUWR
14 Styczeń 2014	Wtorek	9-12	LUWR
15 Styczeń 2014	Środa	9-12	LUWR
16 Styczeń 2014	Czwartek	9-12	LUWR
17 Styczeń 2014	Piątek	9-12	LUWR

UWAGA! Zapisy wyłącznie przez Stronę Projektu:

<http://interphd.pg.gda.pl/pl/wyklady/wyklady-profesorow-wizytujacych-semester-zimowy-20132014/>