









Agenda INSA – IPF Workshop 9th May until 11th May 2023

Tuesday, 9th May 2023						
	From 7 pm	Arrival INSA Members				
	Wednesday, 10th May 2023					
Chemistry and sustainability	8.45-9.00	Jannick Duchet-Rumeau, Jean- Francois Gerard, Brigitte Voit	Welcome and introduction			
$(\cancel{\cancel{x}}\cancel{\cancel{x}})$	9.00- 9.25 am	Brigitte Voit (IPF)	Polyesters with biogenic units			
	9.25- 9.50 am	Catherine Marestin (INSA)	Synthesis of aromatic and heterocyclic polymers through non-conventional routes			
	9.50- 10.15 am	Jens Gaitzsch (IPF)	Functional Polyesters from Radical Ring-Opening Polymerisation			
	10.15- 10.35 am	Coffee break				
Chemistry and sustainability	10.35- 11.00 am	Sébastien Livi (INSA)	EPOXY-Ionic Liquid : from synthesis to end of life			
	11.00- 11.25 am	Pauline Voigt (IPF)	Effective experimental design for polymer networks with bio based components using DOE			
	11.25- 11.50 am	Romain Tavernier (INSA)	Monomer design for the improvement of sustainability and performances of polymer networks			
	11.50- 12.15	Jean-François Gérard (INSA)	AMETHYST Project: Discovering new polymeric materials by combining high-throughput tools for			
			synthesis and characterisation with Artificial Intelligence			
	12.15- 12.50 pm	Lunch break				

	12.50- 1.30 pm	Lab tour	Polymer Characterization (MSA, PG etc.)
Sustainabilty and Physico-Chemistry	1.30- 1.55 pm	Dieter Fischer (IPF)	Quantitative particle analysis by a combination of
			optical microscopy with FTIR and Raman
			spectroscopy: advanced automation enhanced by
			Machine learning and data management
	1.55- 2.20 pm	Albena Lederer (IPF)	Advanced Field Flow Fractionation techniques for
			characterization of supramolecular and complex
			polymer materials
	2.20- 2.45 pm	Dietmar Appelhans (IPF)	Enzyme reactions in different cavities
	2.45- 3.10 pm	Sylvestre Njakou-Djomo (INSA)	Circularity and sustainability Assessment of
O _N			Composites: Case of wind turbine blades in France
	3.10- 3.30 pm	Coffee Break	
Functional composites	3.30- 3.55 pm	Jannick Duchet-Rumeau (INSA)	Management of interfaces to make composites
			functional
	3.55- 4.20 pm	Beate Krause (IPF)	Polymer/CNT nanocomposites for thermoelectric
			application
	4.20- 4.45 pm	Sébastien Pruvost (INSA)	Functional materials for electrical applications and molecular mobility
	4.45- 5.10 pm	Ulrike Staudinger (IPF)	Vapor sensing behavior of electrically conductive
			Polymer/CNT composites
	5.10- 5.35 pm	Anatoli Serghei (INSA)	Universal relationship between the electromagnetic
			interference shielding effectiveness of composite
			materials and their electrical properties
	5.35- 6.00 pm	Discussion	
	From 7.00 pm	Dinner at the restaurant	

		Thursday, 11th May 2023	
Polymer materials	9.00- 9.25 am	Michaela Gedan-Smolka (IPF)	Influence of chemical bonding in PA-PTFE-Oil-cb compounds on physico-chemical, mechanical and tribological properties
	9.25- 9.50 am	Lars Bittrich (IPF)	Material modelling for short and endless fiber reinforced composites
	09.50- 10.15 am	Markus Stommel/ Anna Sambale (IPF)	In situ experiments to study deformation-induced structure formation in soft polymers.
	10.15-10.40	Anna Sambale (IPF)	Characterization and Modelling of Moisture Gradients in PA 6
	10.40- 11.00	Coffee break	
Polymer materials	11.00- 11.25 am	Andreas Fery (IPF)	Making materials communicative
Polymers at the interface with life sciences	11.25- 11.50 am	Silvia Moreno (IPF)	Smart decoration of microcarriers using different loaded polymersomes providing a dual therapeutic action
***	11.50- 12.15 am	Thomas Trimaille (INSA)	Drug delivery systems; hydrogels (sensitive to pH, temperature, enzymes)
	12.15- 12.40 pm	Günter Auernhammer (IPF)	Dynamics at Polymer Interfaces: Wetting, Electro-kinetics, etc.: From fundamentals towards applications
	12.40- 1.40 pm	Lunch break	
	1.40- 2.20 pm	Lab tour	Processing etc.
Polymers at the interface with life sciences	2.20- 2.45 pm	Arnaud Favier (INSA)	Fluorescent polymer probes for bio-imaging (infectiology, immunology, cancerology); well-defined polymer bioconjugates; gold/polymer hybrid nanoparticles
3 ~	2:45-3:10	Carsten Werner (IPF)	Overview IPF Institute Biofunctional Polymers
	3:10- 4.30 pm	Final Discussion	Further steps