DRESDEN'S RESEARCHERS' NIGHT 2016

Station 10

Leibniz-Institut für Polymerforschung Dresden e. V. (IPF)

(Leibniz Institute of Polymer Research Dresden)

- Institute of Macromolecular Chemistry
- Institute of Physical Chemistry and Polymer Physics
- Institute of Polymer Materials
- Institute of Biofunctional Polymer Materials
- Institute of Theory of Polymers

Technische Universität Dresden

- Institute of Material Science
- Institute of Textile Machinery and High Performance Material Technology

including Max Bergmann Center of Biomaterials,
common institution of IPF and TUD

	Title	Building	Floor	Room
	Lectures			
18:15	Chemistry for children (in German) Interactive lecture with experiments, about 45 min, for children from about 5 to 10 years Dr. Jürgen Pionteck and Manuela Heber	H	2nd floor	201
20:30	Chemistry at the nanoscale (in German) Exploring the fascinating nanoworld of molecular structures – how to characterize, modify and understand single molecules and how to make use of the knowledge Dr. Hans-Georg Braun	H	2nd floor	201
	Open labs and pilot plants – admittance 18:00 to 0:00			
1	Drug release from polymer films	W	2nd floor	206
2	Polymers in medicine: Hemocompatibility	B	2nd floor.	211
3	Dancing and racing droplets: Surface tension and biomimetic concepts	B	2nd floor	216
4	Low pressure plasma: A universal tool for surface modification of polymers	B	Ground floor	7
5	New polymeric filtration membranes	B	Ground floor	Entrance hall
6	NMR for investigation of materials	B	Keller	07
7	Carbon nanoparticles for optimization of properties of plastics	L	1st floor	103
8	Microscopic folding: A new way to functional surfaces	L	Ground floor	1
9	Light and electron microscopy	L	Basement floor	09
10	Polymer processing: Extrusion, injection moulding, 3D printing	T	Ground floor	Technikum
11	Glassblower's workshop	T	Basement floor	016

12	Synthesis of biogenic ‘green‘ polymers for new materials	P	Ground floor	4a
13	In-line modification of 3D plastics components	P	Ground floor	4c
14	Extreme lightweight construction with fibre-reinforced plastics	P	Ground floor	6
15	Flexible scaffolds for tissue engineering of the cruciate ligament produced by embroidery technique	P	Ground floor	6
16	Materials testing, e.g. with rubber	H	2nd floor	216
17	IR spectroscopy to investigate and identify materials	H	2nd floor	213
18	Microplastics in the environment: Identification and pathways of entry	H	2nd floor	211
19	Chromatography for investigation of substances	H	2nd floor	224
20	Fibre-matrix adhesion as a crucial parameter in fibre-reinforced plastics	H	1st floor	119
21	Spinning of polymer fibres	H	Ground floor	9
22	Surface analysis: Wetting phenomena	H	Ground floor	17
23	Spirit level: Production of devices for research	H	Ground floor	11
24	Polymer materials for lithium-sulfur batteries	H	Basement floor	012a
	Discover micro and nanoworld (scanning microscopy) Microorganisms swimming in microdrops Perception of the environment (gas detection)	B	4th floor	
	ITM Clothing: from the scanner to the product	H	1st floor	142
	Further Activities			
	Art exhibition: Water-colour and reverse-glass paintings of Georg Heider	H	Ground floor	Foyer
	Interactive show cases: ultrahydrophobic surface (dexterity puzzle), spin-coater to produce thin films	H	1st floor	Foyer
from 19:15	Do-it-yourself experiments (for children)	B	Ground floor	1
	Quiz	H,B	Ground floor	Entrance
	Snacks, drinks and live music with ZUGABE		Courtyard	

Updated: May 4, 2016, subject to changes