



DRESDEN SCIENCE NIGHT 2017

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 Textile Machinery and High Performance Material Technology (ITM)

Title	Building	Floor	Room
IPF Lectures			
18:15 Chemistry for children (in German) Interactive lecture with experiments, about 45 min, for children from about 5 to 10 Sandra Haufe and Manuela Heber	H	2nd floor	201
19:00 21:00 "Wie entsteht ein Mikrobauwerk? – Komplexe 3-dimensionale Sub-Mikrostrukturen" Presentation and lab tour on microstructuring of materials by laser techniques for many applications (medicine, photonics, etc.) Presentation in German, Discussion may be in English 20 min presentation @ room L 11, afterwards lab tour @ room L 011 PD Dr. Hans-Georg Braun	L	Ground floor	11
20:00 "Gummi, die elastische Faszination – vom Baby-Schnuller bis zum Formel-1-Reifen" Lecture in German on rubber and its application from dummies to Formula 1 tires Prof. Dr. Gert Heinrich	H	2nd floor	201
IPF Open labs and pilot plants - admittance 18:00 to 0:00			
1 Red gold: Optical effects in materials layers explained by the example of thin gold layers and nanoparticles	W	2nd floor	218
2 Microscopic folding: A new way to functional surfaces	W	2nd floor	218
3 Drug release from polymer films	W	2nd floor	213/214
4 Surface modification by plasma jet	W	Basement floor	019
5 New polymeric filtration membranes and polyelectrolytes for waste water treatment	B	Ground floor	Entrance hall
6 Carbon nanoparticles for optimization of properties of plastics	L	1st floor	103
7 Light and electron microscopy	L	Basement floor	09
8 Polymer processing: Extrusion and injection moulding	T	Ground floor	Technikum
9 Polymer processing: 3D printing	T	Ground floor	10

10	Glassblower's workshop	T	Basement floor	016
11	High-tech structures from the stitching machine for applications from medical implants up to aircrafts	P	Ground floor	6
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	Dancing wire: Design and production of specific research equipment	H	Ground floor	11
15	Chromatography for investigation of substances	H	2nd floor	224
16	Microplastics in the environment: Identification and pathways of entry	H	2nd floor	
17	Spinning of glass fibres and their application in fibre-reinforced plastics and textile reinforced concrete	H	Ground floor	7
18	Fascination rubber: Development of novel elastomeric materials	H	Ground floor	12
	ITM Clothing: From the scanner to the product	H	1st floor	142
	Further activities			
	Art exhibition: Paintings and drawings by Ursula Schlesing	H	Ground 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 Mr. Campfire/Michael Pritzke		Courtyard	

Updated: May 16, 2017, subject to changes