



Sunday 17/09/2017 – Opening of Summer Workshop 2017	
17:00 – 19:00 Get-together	
<p><i>Prof. E. Pamuła – AGH University of Science and Technology, AGH, Krakow and Representative of Polish Society for Biomaterials</i></p> <p><i>Prof. J. Chłopek – AGH University of Science and Technology, AGH, Krakow and Representative of Polish Society for Biomaterials</i></p> <p><i>Prof. D. Scharnweber, Dr. C. Wolf-Brandstetter – Max Bergmann Center of Biomaterials (MBC), TU Dresden</i></p> <p><i>Prof. M. Gelinsky – Centre for Translational Bone, Joint and Soft Tissue Research (TFO), TU Dresden, University Hospital Dresden</i></p>	
Monday 18/09/2017 – Clinicians day	
<i>Morning</i>	
8:45 – 9:00 Introduction <i>Prof. E. Pamuła (AGH, Poland) / Prof. D. Scharnweber (TUD, MBC, Germany)</i>	
9:00 – 10:00 Challenges in intervertebral disc surgery <i>Prof. H.J. Meisel (Clinics for Neurosurgery, Bergmannstroß, Halle, Germany)</i>	
10:00 – 11:00 Clinical relevance of large bone defects and current strategies <i>Dr. J. Pyrc (TUD, University Hospital Dresden, Germany)</i>	
11:00 – 12:00 Regeneration in oral medicine: biological aspects and efficiency of protocols for GBR, stem cells and growth factors <i>Prof. A. Wojtowicz (Warsaw Medical University, Poland)</i>	
<i>Afternoon</i>	
12:00 – 14:00 Lunch	
14:00 – 17:00 Students presentations (5 min talk of each participant about own research topic)	
<i>Evening</i>	
19:00 – 21:00 Walking tour – <i>Kraków Old Town</i>	
Tuesday 19/09/2017 – Materials day I	
<i>Morning</i>	
9:00 – 10:00 Bioceramic materials for bone tissue defects treatment <i>Prof. A. Słószarczyk / Dr. J. Czechowska (AGH, Poland)</i>	
10:00 – 11:00 Bioactive glasses for bone tissue engineering <i>Dr. K. Cholewa-Kowalska (AGH, Poland)</i>	
11:00 – 12:00 Challenges in biomaterial's development <i>Prof. M. Gelinsky (TUD, TFO, University Hospital Dresden, Germany)</i>	
<i>Afternoon</i>	
12:00 – 14:00 Lunch	
14:00 – 17:00 Lab session 1 Manufacturing of ceramic and polymer medical devices (AGH, Poland)	
Group 1: Sintered bioceramics <i>Dr. A. Zima, E. Cichoń, D. Siek</i>	Group 2: Bone cements <i>K. Król-Morkisz, P. Domalik-Pyzik</i>
Group 2: Bone cements <i>K. Król-Morkisz, P. Domalik-Pyzik</i>	Group 1: Sintered bioceramics <i>Dr. A. Zima, E. Cichoń, D. Siek</i>



Wednesday 20/09/2017 – Materials day II	
<i>Morning</i>	
9:00 – 12:00 Lab session 2 Metallic biomaterials - surface modification of medical devices <i>Dr. M. Gołda-Cępa, J. Duch, Prof. A. Kotarba, (Jagiellonian University, Faculty of Chemistry, Poland)</i>	
<i>Afternoon & evening</i>	
12:00 – 19:00 Networking activity – Combined with visit to Kraków Valleys Landscape Park and Pieskowa Skała castle	
Thursday 21/09/2017 – Applied day I	
<i>Morning</i>	
9:00 – 10:00 Biomaterial development from the company's perspective <i>Lydia Lange (INNOTERE GmbH, Germany)</i>	
10:00 – 11:30 Implant associated infections – the materials scientist's point of view <i>Dr. C. Wolf-Brandstetter (TUD, MBC, Germany)</i>	
<i>Afternoon</i>	
12:00 – 14:00 Lunch	
14:00 – 17:00 Lab session 3 Characterization methods of ceramic and polymer medical devices (AGH, Poland)	
Group 1: Structural characterization of biomaterials – FTIR, Raman, XRD <i>A. Wajda, Dr. B. Handke</i>	Group 2: Structural and microstructural characterization of biomaterials – BET, DLS, Zeta potential <i>K. Wojciechowski, Dr. Ł. Zych</i>
Group 2: Structural and microstructural characterization of biomaterials – BET, DLS, Zeta potential <i>K. Wojciechowski, Dr. Ł. Zych</i>	Group 1: Structural characterization of biomaterials – FTIR, Raman, XRD <i>A. Wajda, Dr. B. Handke</i>
<i>Evening</i>	
19:00 – 22:00 Social event – <i>Kazimierz</i>	
Friday 22/09/2017 – Applied day II	
<i>Morning</i>	
9:00 – 10:30 Free to reuse. Open Education Resources workshop <i>MSc. K. Grodecka (AGH, Centre of e-learning, Poland)</i>	
10:30 – 11:30 Analysis of lab sessions and evaluation of Summer Workshop	
11:30 Closing remarks	