



Summer School “Resource-efficient technologies: Experience of Russia and Germany”



G-RISC
German-Russian
Interdisciplinary
Science Center

Sunday 15.06.14	Arriving	
Monday 16.06.14	Block 1. Institute of High Technology Physics of TPU	
9.30-13.00	Opening of the workshop. Welcome speech.	Prof. Tatyana S. Petrovskaya Deputy Vice-Rector for Academic and International Affairs Prof. Klaus-Dieter Rupp (DHBW) PhD Oleg A. Aleksandrov Head of the Department of German Language
	“Technologies of water purification”	PhD Jakov I. Kornev Senior Research Scientist of Lab №12
14.00-17.00	“Researches of nanomaterials within the NanoBRIDGE program”	Prof. Oleg L. Khasanov Head of the Department of Nanomaterials and Nanotechnologies
	Excursion to the Nanomaterials and Nanotechnologies Centre	
Tuesday 17.06.14	Block 2. Institute of Cybernetics of TPU	
9.30-13.00	“EAGLE - Enhanced Government Learning”	Prof. Möbs (DHBW)
	“The role of robotics and mechatronics in improvement of resource efficiency in industrial production”	PhD Vladislav A. Rudnitskij Associate professor of the Department of Integrated Computer Control Systems
	“Material (real, corporeal) interpolation method in automatic control”	Prof. Valerij I. Goncharov Department of Integrated Computer Control Systems
14.00-17.00	Excursion to the Labs of the Institute of Cybernetics	
Wednesday 18.06.14	Block 3. Baden-Württemberg Cooperative State University	
9.30-13.00	“Design for Material Saving and sustainability”	Zsolt Roth Engineer of VOITH (DHBW)
14.00-17.00	Excursion to the Special economic zone of Tomsk	
Thursday 19.06.14	Block 4. Baden-Württemberg Cooperative State University	
9.30-13.00	“Simulation of renewable energy Systems”	Prof. Klaus-Dieter Rupp (DHBW)
14.00-17.00	Workshop “Requirements to project works”	Prof. Klaus-Dieter Rupp (DHBW)
	Excursion to the Tomsk Electromechanical Plant	
20.06.14 – 22.06.14	Excursion to the Krasnojarskaya hydroelectric station (additional charges)	
Monday 23.06.14	Block 5. Institute of Physics and Technology of TPU	
9.30-13.00	“Ion-plasma methods of biocoating deposition: problems and perspective”	Prof. Vladimir F. Pichugin Head of the Department of Theoretical and Experimental Physics
	“Hybrid materials for biomedical applications”	PhD Segrey I. Tverdohlebov Associate professor of the Department of

		Theoretical and Experimental Physics
14.00-17.00	Excursion to the Labs of the Institute of Physics and Technology	
Tuesday 24.06.14	Block 6. Institute of Power Engineering of TPU	
9.30-13.00	“Modern aspects of energy saving in the field of power engineering”	Prof. Vasily Y. Ushakov Head of the Resource Saving Regional Centre
	“Problems of energy saving”	PhD Nikolay N. Kharlov Engineer of the Resource Saving Regional Centre
	“Development of heating schemes of cities with due account for promising energy-saving technologies”	PhD Irina P. Ozerova Head of the Department of Heat and Power Process Automation
14.00-17.00	Excursion to the Labs of the Institute of Power Engineering	
Wednesday 25.06.14	Block 7. Institute of Non-Destructive Testing of TPU	
9.30-13.00	“Solution for water treatment and water purification”	Prof. Sergey V. Romanenko Head of the Department of Ecology and Basic Safety
	“Nanopowders of metals and chemical compounds produced by electrical explosion of conductors: properties and applications”	Prof. Olga B. Nazarenko Department of Ecology and Basic Safety
14.00-17.00	Excursion to the Labs of the Institute of Non-Destructive Testing	
Thursday 26.06.14	Block 8. Institute of Natural Resources	
9.30-13.00	“Ecological-geochemical specifics of the environment and public health”	Prof. Leonid P. Rihvanov Department of Geoecology and Geochemistry
	“Complex usage of coals as resource base for high technologies”	Prof. Sergey I. Arbuzov , Department of Geoecology and Geochemistry
14.00-17.00	Excursion to the Labs of the Institute of Natural Resources	
Friday 27.06.14	Final Block	
9.30-13.00	Final projects examination of students of TPU and DHBW	Prof. Klaus-Dieter Rupp (DHBW)
14.00-17.00	Banquet	
Saturday 28.06.14	Picnic/Sightseeing	
Sunday 29.06.14	Departure	

the summer school programme can be amended