

## Summer school for PhD Students

12-16th September 2022 Warsaw

### Agenda

Monday (12/09/22)			
11:00 – 12:30	Registration		
12:30 – 13:00	School Opening  CEZAMAT WUT Presentation <b>Professor Romuald B. Beck, WUT</b>  <i>lecture hall 1.50</i>		
13:00 – 14:00	Lunch <i>CEZAMAT canteen room</i>		
14:00 – 15:00	Biomedical engineering - the past, present and the future <b>Professor Gerard Cybulski, WUT</b>  <i>lecture hall 1.50</i>		
15:00 – 15:30	Coffee break		
15:30 – 16:30	Introduction to Photonics <b>Anna Pakuła, PhD, Eng., Assistant Professor of WUT</b>  <i>lecture hall 1.47</i>		
18:00 – 18:30	Dinner <i>CEZAMAT canteen room</i>		
Tuesday (13/09/22)			
9:30 – 11:00 Parallel lectures	<b>Photonic Lecture</b> Different designing of optical elements, holographic methods and future perspectives <b>Agnieszka Siemion, PhD, Eng., Assistant Professor of WUT</b>  <i>lecture hall 1.47</i>	<b>Bioengineering Lecture</b> Bioengineering-on-a-chip towards medical diagnostics and therapies <b>Professor Zbigniew Brzózka, WUT</b>  <i>lecture hall 1.50</i>	
11:00 – 11:30	Coffee break		
11:30 – 13:00 Parallel lectures	<i>Selected topics in photonics and printed electronics:</i> (1) Printed Electronics – Technology of the Future <b>Professor Małgorzata Jakubowska, WUT</b>	<i>Lab-on-a-chip systems in biomedical applications</i> <b>Elżbieta Jastrzębska, PhD, D.Sc., Eng., Associate Professor of WUT</b> &	<i>Immunotherapeutic Potential of Recombinant Vectors and Antigens. Bioinformatics in Immunotherapy and Cancer Immunology</i> <b>Monika Staniszevska,</b>

	<p>(2) <i>Photonic Integrated Circuits – technologies and applications</i></p> <p><b>Piotr Wiśniewski</b>, PhD, Eng., Assistant Professor of WUT</p> <p>lecture hall 1.47</p>	<p><b>Mariusz Pietrzak</b>, PhD, D.Sc., Eng., Associate Professor of WUT</p> <p>lecture hall 1.50</p>	<p>PhD, D.Sc., Associate Professor of WUT</p> <p><b>Teresa Szczepińska</b>, PhD, Assistant Professor of WUT</p> <p><b>Anna Mazurkiewicz-Pisarek</b>, PhD, Eng., Assistant Professor of WUT</p> <p><b>Michał Łażniewski</b>, PhD, Assistant Professor of WUT</p> <p><b>Joanna Baran</b>, MSc., Eng., PhD student</p> <p>conference room 1.21</p>
13:00 – 14:00	<p>Lunch CEZAMAT canteen room</p>		
14:00 – 16:00 Parallel CEZAMAT lab tours	<p>(1) <i>Application possibilities of printed electronics</i></p> <p><b>Jakub Krzemiński</b>, PhD, Eng., Assistant Professor of WUT &amp; <b>Andrzej Peplowski</b>, PhD, Eng., Assistant Professor of WUT</p> <p>(2) <i>Technology of silicon-nitride based Photonic Integrated Circuits</i></p> <p><b>Mateusz Słowikowski</b>, MSc, Eng. &amp; <b>Krzystian Pavlov</b>, MSc, Eng.</p>	<p><i>Lab-on-a-chip systems in biomedical applications</i></p> <p><b>Magdalena Flont</b>, PhD, Eng., Assistant Professor of WUT</p> <p><b>Patrycja Sokołowska</b>, PhD, Eng., Assistant Professor of WUT &amp; <b>Katarzyna Tokarska</b>, PhD, Eng., Assistant Professor of WUT</p>	<p><i>Tools in Studying Immunotherapeutic Action Mode</i></p> <p><b>Monika Staniszweska</b>, PhD, D.Sc., Associate Professor of WUT, <b>Anna Mazurkiewicz-Pisarek</b>, PhD, Eng., Assistant Professor of WUT &amp; <b>Joanna Baran</b>, MSc., Eng., PhD student</p>
18:00 – 18:30	<p>Dinner CEZAMAT canteen room</p>		
<b>Wednesday (14/09/22) - Mini symposium</b>			
9:30 – 11:00	<p>Plenary session Photonic</p> <p>lecture hall 1.47</p>		<p>Plenary session Bioengineering</p> <p>lecture hall 1.50</p>

11:00 – 11:30	Coffee break	
11:30 – 13:00	<p><b>Plenary session P2</b> <b>Photonic</b></p> <p><i>lecture hall 1.47</i></p>	<p><b>Plenary session B2</b> <b>Bioengineering</b></p> <p><i>lecture hall 1.50</i></p>
13:00 – 14:30	Lunch CEZAMAT canteen room	
14:30 – 16:00	<p><b>Plenary session P3</b> <b>Photonic</b></p> <p><i>lecture hall 1.47</i></p>	<p><b>Plenary session B3</b> <b>Bioengineering</b></p> <p><i>lecture hall 1.50</i></p>
16:00 – 16:30	Coffee break	
19:00 – 22:00	Gala Dinner CEZAMAT canteen room	
<b>Thursday (15/09/22)</b>		
9:30 – 11:00	<p><b>Soft-skills session</b> Ethical challenges of technoscience, part 1 – <b>Jakub Wagner</b>, PhD, Eng., Assistant Professor of WUT</p> <p><i>lecture hall 1.50</i></p>	
11:00 – 11:30	Coffee break	
11:30 – 13:00	<p><b>Soft-skills session</b> Ethical challenges of technoscience, part 2 – <b>Paweł Mazurek</b>, PhD, Eng., Assistant Professor of WUT</p> <p><i>lecture hall 1.50</i></p>	
13:00 – 14:00	Lunch CEZAMAT canteen room	
14:00 – ca. 17:00	<p><b>Warsaw trip</b> City tour starting from CEZAMAT headquarter Expected return to CEZAMAT about 17:00</p>	
<b>Friday (16/09/22)</b>		
9:30 – 11:00 Parallel lectures	<p><b>Photonic Lecture</b> Integrating photonics – the world of photonic integrated circuits – <b>Professor Ryszard Piramidowicz</b>, WUT</p> <p><i>lecture hall 1.47</i></p>	<p><b>Bioengineering Lecture</b> Medical robotics; a modern method of developing the concept, design, construction and prototype of a dynamic human upper limb prosthesis – <b>Krzysztof Mianowski</b>, PhD, Eng., Assistant Professor of WUT</p> <p><i>lecture hall 1.50</i></p>

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11:00 – 11:30	Coffee break
11:30 – 13:00	Quantitative phase imaging: principles, instrumentation and applications based on holographic microscopy and tomography <b>dr inż. Arkadiusz Kuś</b> , PhD, Eng., Associate Professor of WUT  <i>lecture hall 1.50</i>
13:00 – 13:15	Closing session <i>lecture hall 1.50</i>
13:15 – 14:15	Lunch <i>CEZAMAT canteen room</i>