

Schedule of SFM-17
International Symposium “Optics and Biophotonics-V”
21st International School for Junior Scientists and Students on Optics, Laser Physics & Biophotonics

September 25, Monday

September 25, Monday				
12.00-14.00	Registration			<i>Building 10, Foyer</i>
14.00-14.10	Opening of 21st International School on Optics, Laser Physics & Biophotonics Valery V. Tuchin, Saratov State University, Russia			<i>Building 10, Hall 503</i>
14.10-15.10	SPIE SHORT COURSE Fluorescence Microscopy for Biomedical Applications Herbert Schneckenburger, Aalen University, Germany			<i>Building 10 Hall 503</i>
15.10-15.40	Coffee break			
15.40-16.40	SPIE SHORT COURSE Fluorescence Microscopy for Biomedical Applications Herbert Schneckenburger, Aalen University, Germany			<i>Building 10 Hall 503</i>
16.40-19.00	ORAL SESSION ENGLISH Co-chairs: Alexander B. Pravdin and Svetlana V. Eremina , Saratov State University, Russia	<i>Building 10 Hall 503</i>	LECTURE/ORAL SESSION EDUCATION I Co-chairs: Boris A. Medvedev and Vladimir P. Ryabukho , Saratov State University, Russia	<i>Building 3, Room 34</i>

September 26, Tuesday

9.00-14.00	Registration						<i>Building 3, Foyer</i>	
9.30-11.30	OSA SHORT COURSE Speckle and Related Phenomena: Techniques and Applications in Biomedicine Sean J. Kirkpatrick, Michigan Technological University, USA						<i>Building 10, Hall 503</i>	
11.30-12.00	Coffee break							
12.00-13.00	OSA SHORT COURSE Speckle and Related Phenomena: Techniques and Applications in Biomedicine Sean J. Kirkpatrick, Michigan Technological University, USA						<i>Building 10, Hall 503</i>	
13.00-14.00	Lunch							
14.00-14.10	Opening of International Symposium “Optics and Biophotonics-V” Valery V. Tuchin, Saratov State University, Russia						<i>Building 3, Big Physical Hall</i>	
14.10-15.30	PLENARY SESSION I Chair: Valery V. Tuchin , Saratov State University, Russia Polarization Optical Imaging as an Intraoperative Tool for Skin Cancer Delineation , Anna Yaroslavsky, University of Massachusetts, Lowell, USA Advanced Methods of 3D Live Cell Microscopy , Herbert Schneckenburger, Aalen University, Germany						<i>Building 3, Big Physical Hall</i>	
15.30-16.00	Coffee break							
16.00-17.00	ORAL SESSION PHOTONICS I Chair: Vladimir L. Derbov , Saratov State University, Russia	<i>Building 10, Hall 503</i>	INVITED/ORAL SESSION BIOPHYSICS I Chair: Herbert Schneckenburger , Aalen University, Germany	<i>Building 10 Main Conference Hall</i>	PLENARY SESSION BIOMEDICAL SPECTROSCOPY I Chair: Alexander B. Pravdin , Saratov State University, Russia	<i>Building 3, Room 34</i>	LECTURE/ORAL SESSION EDUCATION II Co-chairs: B. Medvedev and V. Ryabukho , SSU, Russia	<i>Scientific Library Conference Hall</i>
17.00-18.00	ORAL SESSION BIOCOMPUTING I Chair: Dmitry E. Postnov , Saratov State University, Russia				ORAL SESSION SPECTROSCOPY I Chair: Lev M. Babkov , Saratov State University, Russia			
18.00-18.30	Student Concert						<i>Building 10 Main Conference Hall</i>	

19.00-21.00	Welcome Party	<i>University campus</i>
September 27, Wednesday		
9.00-10.00	SPIE SHORT COURSE (Bauman Moscow State Technical Univ. SPIE Student Chapter) Multimodal Imaging for the Biomedical Applications Anna Yaroslavsky, University of Massachusetts, Lowell, USA	<i>Building 10, Hall 503</i>
10.00-10.30	Coffee break	
10.30-11.30	SPIE SHORT COURSE (Bauman Moscow State Technical Univ. SPIE Student Chapter) Multimodal Imaging for the Biomedical Applications Anna Yaroslavsky, University of Massachusetts, Lowell, USA	<i>Building 10, Hall 503</i>
11.30-12.00	Coffee break	
12.00-13.20	PLENARY SESSION II Chair: Alexander V. Priezzhev , Moscow State University, Russia Laser Speckle Modeling and Simulation for Biophysical Dynamics, Kosar Khaksari , Tufts University, Sean J. Kirkpatrick , Michigan Technological University, USA Advances in Label-Free Optical Endomicroscopy Technologies Towards Histological Imaging of Biological Tissues <i>in Vivo</i>, Xingde Li , Johns Hopkins University, USA	<i>Building 10 Main Conference Hall</i>
13.20-14.20	Lunch	
15.30-17.30	Social program (Volga boat tour)	

September 28, Thursday

9.00-10.00	OSA FELLOW SHORT COURSE Optical Coherence Tomography and Endoscopy Xingde Li, Johns Hopkins University, USA		Building 10, Hall 503					
10.00-10.30	Coffee break							
10.30-11.30	OSA FELLOW SHORT COURSE Optical Coherence Tomography and Endoscopy Xingde Li, Johns Hopkins University, USA		Building 10, Hall 503					
11.30-12.00	Coffee break							
12.00-13.20	PLENARY SESSION III Chair: Sean J. Kirkpatrick , Michigan Technological University, USA Sapphire Shaped Crystals for Biomedical Applications, Vladimir N. Kurlov¹ , Irina A. Shikunova ¹ , Gleb M. Katyba ¹ , Sergey N. Rossolenko ¹ , Nikita V. Chernomyrdin ² , Andrei A. Kuznetsov ² , Igor V. Reshetov ³ , Kirill I. Zaytsev ^{2,4} , ¹ Institute of Solid State Physics of RAS; ² Bauman Moscow State Technical University; ³ Sechenov First Moscow State Medical University; ⁴ Prokhorov General Physics Institute of RAS, Russia Laser Trapping and Manipulation of Red Blood Cells: An Efficient Tool for Hemorheologic Research, Alexander V. Priezzhev , Moscow State University, Russia		Building 10, Hall 503					
13.20-14.20	Lunch							
14.20-15.00	PUBLIC LECTURE SESSION MODERN OPTICS Co-chairs: Georgy V. Simonenko, Alexander B. Pravdin , Saratov State University, Russia Recent Developments of Translational Optical Micro Imaging Technologies, Xingde Li , Johns Hopkins University, USA Shining Light on Cells and Tissue, Herbert Schneckenburger , Aalen University, Germany Ivan Fedosov		Building 3, Big Physical Hall					
14.20-16.00	JOINT ORAL SESSION POLARIZATION I/ MICROSCOPY AND LOW- COHERENCE METHODS Co-Chairs: Dmitry A.	<i>Building 10 Main Conference Hall</i>	ORAL SESSION PHOTONICS II Chair: Vladimir L. Derbov , Saratov State University, Russia	<i>Building 10, Hall 503</i>	ORAL SESSION NONLINEAR DYNAMICS I Chair: Vadim S. Anishchenko , SSU Russia	<i>Building 3, Room 38</i>	ROUND-TABLE DISCUSSION EDUCATION II Co-chairs: Boris A. Medvedev and	<i>Scientific Library Conference Hall</i>

	Zimnyakov , Saratov State Technical University, Russia, Kirill Larin , Houston University, USA		LOW-DIMENSIONAL STRUCTURES Chair: Olga Glukhova , SSU, Russia	<i>Building 3, Room 34</i>	ORAL SESSION NANOBIPHOTONICS Chair: Nikolai G. Khlebtsov , IBPPM RAS, SSU, Russia	<i>Building 9, Conference Hall</i>	Vladimir P. Ryabukho , Saratov State University, Russia	
16.00-16.30	Coffee break							
16.30-18.30	<p>PLENARY SESSION IV INTERNET BIOPHOTONICS</p> <p>Chair: Valery V. Tuchin, Saratov State University, Russia</p> <p>Speckle Fluctuations to Probe Dynamics on the Macroscopic to Microscopic Scales, David Boas, Boston University, USA</p> <p>Acousto-Optics - Review of Recent Developments in Biomedicine, Stefan Andersson-Engels, Michael Raju and Jacqueline Gunter, Tyndall National Institute and Department of Physics, University College Cork, Cork, Ireland</p> <p>Optical Tools in Radiation Therapy, Brian Pogue, Dartmouth College, USA</p> <p>In vivo skin optical clearing window for cutaneousvascular and cell imaging Dan Zhu, Britton Chance Center for Biomedical Photonics, Huazhong University of Science and Technology, Wuhan, China</p>							<i>Building 3, Big Physical Hall</i>
16.30-19.30	<p>JOINT POSTER/INTERNET SESSION AND INTERNET DISCUSSION. COMPETITION FOR THE BEST STUDENT POSTER AWARD</p> <p>Moderators: Dmitry Agafonov, Ivan V. Fedosov, Saratov State University, Russia</p> <p>Special event: Fair of Innovative Biophotonics Technologies https://nano-glass.ru/fair/index.html</p>							<i>Building 3, 3rd floor Hall</i> <i>Room 34</i>

September 29, Friday

9.00-10.20	<p>PLENARY SESSION V Chair: Herbert Schneckenburger, Aalen University, Germany</p> <p>New Generation of Compact Laser Sources for Imaging, Diagnostics and Treatment In Biomedicine, Edik Rafailov, Aston University, UK</p> <p>Multiparametric Analysis of Tumor Development and Response for Chemotherapy Using Time-Resolved Imaging, Elena Zagaynova¹, Marina Shirmanova¹, Marina Kuimova², Konstantin Lukyanov³, Maria Lukina¹, Lubov Shimolina¹, Varvara Dudenkova¹, Tatyana Sergeeva¹, Natalia Klementieva¹, Vladislav Scheslavsky⁴, Irina Druzhkova¹, ¹Nizhny Novgorod State Medical Academy, Russia; ²Imperial College, London, UK; ³Institute of Bioorganic chemistry, Russia; ⁴Becker & Hickl GmbH, Berlin, Germany</p>							Building 10 Main Conference Hall
10.20-10.30	Special Event: OSA Presentation, Xingde Li , Johns Hopkins University, USA							
10.30-11.00 Coffee break								
11.00-13.00	<p>JOINT INVITED/ORAL SESSION BIOPHYSICS III/PHYSIOLOGY I Chair: Edik Rafailov, Aston University, UK</p>	Building 10 Main Conference Hall	<p>ORAL SESSION BIOCOMPUTING II Chair: Eugeny B. Postnikov, Kursk State University, Russia</p>	Building 10, Hall 503	<p>ORAL SESSION SPECTROSCOPY II Chair: Kirill V. Berezin, Saratov State University, Russia</p>	Building 3, Room 34	<p>ORAL SESSION BIOMEDICAL SPECTROSCOPY II Chair: Vyacheslav I. Kochubey Saratov State University, Russia</p>	Scientific Library Conference Hall
	<p>ORAL SESSION POLARIZATION II Chair: Dmitry A. Zimnyakov, Saratov State Technical University, Russia</p>	Building 1, Room 459, SSTU, 77 Politechnic heskaya Str.	<p>ORAL SESSION ELECTROMAGNETIC S Chair: Michael V. Davidovich, Saratov State University, Russia</p>	Building 8, Room 82	<p>ORAL SESSION NONLINEAR DYNAMICS II Chair: Vadim S. Anishchenko, Saratov State University, Russia</p>	Building 3, Room 38	<p>ORAL SESSION TELEMEDICINE Co-chairs: V. Bakutkin, Saratov Research Institute of Rural Hygiene and Sergey Utz, Clinics of Skin and Venereal Diseases, SSMU, Russia</p>	Clinics of Skin and Venereal Diseases, SSMU, 22 Proviantska ya Str.
14.00-17.00	Round-table discussions and closing of the School. The Best Student Poster Award Ceremony.							Open Air Museum

September 30, Saturday

10.00-12.00

**ORAL SESSION and ROUND-TABLE DISCUSSION
PHYSIOLOGY II**

Chair: **Oxana Semyachkina-Glushkovskaya**, Saratov State University, Russia

*Building 10,
Hall 503*