Schedule of SFM-19/ADFLIM 7th International Symposium "Optics and Biophotonics" 23^d International School for Junior Scientists and Students on Optics, Laser Physics & Biophotonics 4th School on Advanced Fluorescence Imaging Methods

	September 23, Monday							
12.00-14.00	Registration	Building 3, Foyer						
14.00-15.00	OSA SHORT COURSE Functional Optical Imaging of Developmental Dynamics in vivo Irina V. Larina, Molecular Physiology and Biophysics, Baylor College of Medicine, Houston, USA	Building 10 Hall 503						
15.00-15.30	Coffee break	Building 10						
15.30-16.30	OSA SHORT COURSE Functional Optical Imaging of Developmental Dynamics in vivo Irina V. Larina, Molecular Physiology and Biophysics, Baylor College of Medicine, Houston, USA	Building 10 Hall 503						

	September 24, Tuesday	
9.00-14.00	Registration	Building 10, Foyer
10.00-11.00	SPIE SHORT COURSE Optical Guidance in Surgery & Radiation Therapy Brian Pogue, Engineering Science & Medical Physics, Dartmouth College, Hanover, New Hampshire, USA	Building 10, Hall 503
11.00-11.30	Coffee break	Building 10
11.30-12.30	SPIE SHORT COURSE Optical Guidance in Surgery & Radiation Therapy Brian Pogue, Engineering Science & Medical Physics, Dartmouth College, Hanover, New Hampshire, USA	Building 10, Hall 503
12.30-14.00	Lunch	
14.00-14.05	Introduction to SFM/ADFLIM Program Valery V. Tuchin, Saratov State University, Russia; Alexander Savitsky, Research Center of Biotechnology of the RAS	
14.05-16.00	SFM/ADFLIM PLENARY SESSION I Chairs: Valery V. Tuchin, Saratov State University, Russia Rinat O. Esenaliev, University of Texas Medical Branch, Galveston, Texas, USA LAB-Medical Devices for Porphyria-Screening, Fe-Deficiency and Beyond Ronald Sroka, LIFE-Center at Department of Urology at Hospital of University of Munich, Munich, Germany Molecular Sensors for Imaging Inflammation-Specific Biomarkers Alexei A. Bogdanov Jr., University of Massachusetts Medical School, Worcester MA, USA; Research Center of Biotechnology of the RAS and Moscow State University, Moscow, Russia Metabolic Imaging by Simultaneous FLIM of NAD(P)H and FAD Wolfgang Becker, Becker & Hickl GmbH, Berlin, Germany	Building 10, Main Conference Hall (or Building 3, Big Physical Hall)
16.00-16.30	Coffee break, Exhibition	Building 3

16.30-17.50	SFM/ADFLIM PLENARY SESSION II Chair: Alexander P. Savitsky, Research Center of Biotechnology of the RAS Biomedical Optoacoustics: A New Theranostic Modality Rinat O. Esenaliev, University of Texas Medical Branch, Galveston, Texas, USA Optical Coherence Tomography and Optogenetics for Investigation of Early Mammalian Embryonic Development Irina V. Larina, Baylor College of Medicine, Houston, USA	Building 10, Main Conference Hall (or
17.50-18.50	Chair: Valery V. Tuchin, Saratov State University Modern Semiconductor Lasers Manufactured by INJECT RME LLC And Prospects For Their Application Sergey Sokolov, INJECT, Saratov, Russia Fiber optic solutions for broad spectral range 0.3-16 um Olga Bibikova & Viacheslav Artyushenko, art photonics GmbH, Germany Application of femtosecond lasers in biophysics and physical medicine: a review Dmitry Chernykh, Avesta Ltd., Russia	Building 3, Big Physical Hall)
19.00-22.00	Welcome Party	Cafe "Poliglot"

September 25, Wednesday								
9.00-10.00	SHORT COURSE Near-infrared Spectroscopy in Cardiac Arrest and Cardiac Surgery Vladislav Toronov, Department of Physics, Ryerson University, Toronto, Canada							
10.00-10.30	Coffee break, Exhibition					Building 10		
10.30-11.30	SHORT COURSE Near-infrared Spectroscopy in Cardiac Arrest and Cardiac Surgery Vladislav Toronov, Department of Physics, Ryerson University, Toronto, Canada							
11.40-13.00	SFM/ADFLIM PLENARY SESSION III Chairs: Kirill Larin, University of Houston, USA Peter S. Timashev, Institute for Regenerative Medicine, Sechenov University Quantum Optical Technologies for Communications and Information Processing Alexei K. Fedorov, Russian Quantum Center, Skolkovo, Russia Porous Oxide 3D Nanostructures and Nanocomposites as New Functional Materials: Prospects of The Applications for Information Transfer Devices, in Optics and Photovoltaics Anatoly N. Khodan, Frumkin Institute of Physical Chemistry and Electrochemistry of the RAS, Moscow, Russia Neoplasm Raman spectroscopy Valery P. Zakharov, Samara National Research University, Russia							
13.00-14.00	Lunch							
14.00-16.30	JOINT INVITED LECTURE/ORAL SESSION BIOPHYSICS I/MICROSCOPY AND LOW-COHERENCE METHODS Chair: Vladislav Toronov, Department of Building 10, Main Conference Hall (or Building 3,	ORAL SESSION BIOCOMPUTING I Chairs: Dmitry E. Postnov, Saratov State University, Russia	Building 3, Conference Hall 64	ADVANCED MATERIALS FOR OPTICS AND BIOPHOTONICS Chair: Rustam A. Khabibullin, IUHFSE RAS	Building 10, Hall 503			
	Physics, Ryerson University, Toronto, Canada	Big Physical Hall)	ORAL SESSION BIOMEDICAL SPECTROSCOPY I Chair: Alexander B. Pravdin, Saratov	Building 10, Hall 108	LECTURE/ORAL SESSION EDUCATION I Chairs: Boris A. Medvedev, Saratov State University, Russia	Scientific Library Conference Hall		

16.30-17.00	Coffee break, Exhibition							Building 10
17.00-19.15	INVITED LECTURE/ORAL SESSION Building 10, Main Conference Hall (or	ORAL SESSION LASER PHYSICS & PHOTONICS I Chair: Vladimir L. Derbov, Saratov State University, Russia	Building 3, Conference Hall 64	ORAL SESSION BIOMEDICAL SPECTROSCOPY II Chair: Alexander Pravdin, State University, Russia	Building 10,Hall 108	ADVANCED MATERIALS FOR OPTICS AND	Building 10,	
17.00-19.13	BIOPHYSICS II Chair: Valery P. Zakharov, Samara University, Russia	Building 3, Big Physical Hall)	ORAL SESSION EDUCATION II Chairs: B. Medvedev and V. Ryabukho, Saratov State University, Russia	Scientific Library Conference Hall	ORAL SESSION SPECTROSCOPY I Chair: Lev M. Babkov, Saratov State University, Russia	Building 3, Room 34	II Chair: Rustam A. Khabibullin, IUHFSE RAS, Moscow, Russia	Hall 503
20.00-22.00	Social program (Volga boat	tour)						

		Se	ptember 26, Thursday					
	SFM/ADFLIM SESSION IV							
	Chairs: Alexei A. Bogdanov Jr., University of Massachusetts Medical School, Worcester MA, USA; Research Center of Biotechnology of the RAS and Moscow State University, Moscow, Russia Alexei K. Fedorov, Russian Quantum Center, Skolkovo, Russia							
	Speckle Dynamics – from Diffuse Correlation Spectroscopy through Laser Speckle Contrast Imaging to Ultrasound Velocimeter David Boas, Boston University, Boston, USA							
9.00-11.00	Biological Atomic-Force Microscopy: Is Peter S. Timashev, Institute for Regenera		Sechenov University			Hall (or Building 3, Big		
	Neuro Monitoring with Diffuse Correlation Spectroscopy Maria Angela Franceschini, Optics at Martinos Center, Massachusetts General Hospital and Harvard Medical School, Charlestown, Massachusetts, USA							
	Colloids in Rotating Electric Fields: Tunable Interactions, Self-Assembly, and Phase Transitions Stanislav O. Yurchenko, Bauman Moscow State Technical University, Moscow, Russia							
11.00-11.30	Coffee break, Exhibition					Building 10		
11.30-13.00	INVITED LECTURE/ORAL SESSION BIOPHYSICS III Chair: Ronald Sroka, LIFE-Center at Department of Urology at Hospital of University of Munich, Munich, Germany	Building 10, Main Conference Hall (or Building 3, Big Physical Hall)	ORAL SESSION LASER PHYSICS &PHOTONICS II Chair: Vladimir L. Derbov, Saratov State University, Russia	Building 3, Conference Hall 64	TERAHERTZ OPTICS AND BIOPHOTONICS Chair: Dr. Vladimir A. Lazarev, BMSTU, Moscow, Russia	Building 10, Hall 503		
13.00-14.00	Lunch							
	PUBLIC LECTURE SESSION MODERN OPTICS Chairs: Georgy V. Simonenko, Alexander B. Pravdin, Saratov State University, Russia							
14.00-15.30	Shining Light on the Miracle of Life Irina V. Larina, Molecular Physiology and Biophysics, Baylor College of Medicine Houston, USA							
	Quantum Technology: Bite Size Particle Alexey K. Fedorov, Russian Quantum Ce					Physical Hall		
	Show "Exciting Light" presented by OS	A and SPIE stu	ident Chapters of SSU					

14.00-16.30	ROUND-TABLE DISCUSSION EDUCATION Chairs: Boris A. Medvedev, Saratov State University, Russia					
	ORAL SESSION LASER PHYSICS&PHOTONICS III Chair: Vladimir L. Derbov, Saratov State University, Russia Building 3, Conference Hall 64 ORAL SESSION NANOBIOPHOTONICS I Chair: Nikolai G. Khlebtsov, IBPPM RAS, Saratov State University, Russia					
	LOW-DIMENSIONAL STRUCTURES Chair: Olga Glukhova, Saratov State University, Russia Building 8, Room 82 Chair: Vadim S. Anishchenko, Saratov State University, Russia					
16.30-17.00	Coffee break			Building 3		
17.00-18.00	SFM/ADFLIM INTERNET PLENARY SESSION Chair: Valery V. Tuchin, Saratov State University Through Tissue Non-Invasive Sensing and Imaging Zeev Zalevsky, Bar Ilan University, Tel Aviv, Israel Upconverting Nanoparticles Applied in Tissue Imaging Stefan Andersson-Engels, Irish Photonic Integration Centre (IPIC), Tyndall National Institute and Department of Physics, University College Cork, Ireland					

			September	27, Friday			
	SFM/ADFLIM PLENARY SESSION	V					
	Chair: Kirill I. Zaytsev, Prokhorov Institute of General Physics of the RAS, Bauman Moscow State Technical University, Russia						
9.00-10.00	Plasmonic Layers Mediated Cell Optoporation System for Effective Intracellular Delivery of Biomolecules: Challenges and Perspectives Timofey E. Pylaev, Institute of Biochemistry and Physiology of Plants and Microorganisms of the RAS						
	Exogenous Fluorescence Diagr Ekaterina Borisova, Institute of Ele				ulgaria, Sarato	v State University, Saratov, Russia	
	SFM SPECIAL EVENT: Journal se	ssion - Club o	of Editors-in-Chief				Building 10, Main
	Chair: Valery V. Tuchin, Saratov Sta	ate University					Conference
	Journal of Biomedical Optics Brian Pogue, Engineering Science	& Medical Phy	rsics, Dartmouth Colle	ege, Hanover, N	New Hampshire	e, USA	Hall (or Building 3, Big Physical
10.00-10.45	Neurophotonics David Boas, Boston University, Boston, USA						
	Translational Biophotonics Ronald Sroka, LIFE-Center at Department of Urology at Hospital of University of Munich, Munich, Germany						
	Journal of Biomedical Photonics & Engineering Valery P. Zakharov, Samara University, Valery V. Tuchin, Saratov State University						
10.45-11.00	BEST STUDENT POSTER WINNERS AWARD SESSION Chair: Valery V. Tuchin, Saratov State University						
11.00-11.30	Coffee break, Exhibition						Building 10
	ORAL SESSION BIOPHYSICS IV Chair: Ekaterina Borisova, Institute of Electronics, Bulgarian Academy of Sciences, Sofia, Bulgaria, Saratov State University, Saratov, Russia			Building 10, Hall 503		SION PHOTONICS II ai G. Khlebtsov, IBPPM RAS, SSU,	Building 9, Conference Hall
11.30-13.00	ORAL SESSION BIOCOMPUTING I Chairs: Dmitry E. Postnov, Saratov State University, Russia	Building 3, Conference Hall 64	ORAL SESSION ELECTROMAGNE Chair: Michael V. E Saratov State Unive	Davidovich,	Building 8, Room 82	ORAL SESSION ENGLISH Chair: Alexander Pravdin, Saratov State University, Russia	Building 18, Room 105
	ORAL SESSION POLARIZATION Chair: Dmitry A. Zimnyakov, Yuri Gagarin State Technical University of Saratov, Russia ORAL SESSION SPECTROSCOPY II Chair: Kirill V. Berezin, Saratov State University, Russia					Building 3, Room 34	
14.00-18.00	Round-table discussions and clos	sing of the Sc	hool				Open Air Meeting