



**Dedicated to the 300th Anniversary of the Russian Academy of Sciences**

# **Saratov Fall Meeting SFM'22**

**10<sup>th</sup> International Symposium “Optics and  
Biophotonics”**

**26<sup>th</sup> International School for Junior Scientists and  
Students on Optics, Laser Physics & Biophotonics**

**Chinese-Russian Workshop on Biophotonics and  
Biomedical Optics-2022**

# Schedule of SFM-22/CRW-22

## September 26, Monday

Saratov time UTC+4		
9.20-9.30	<b>Welcome to the CRW-BBO-22 participants</b> <b>Valery V. Tuchin</b> , Saratov State Univ., Russia; <b>Dan Zhu</b> , Huazhong Univ. of Science and Technology, China <a href="https://osachapter.zoom.us/j/97105128804">https://osachapter.zoom.us/j/97105128804</a>	Zoom
9.30-13.00	<b>ON-LINE CHINESE-RUSSIAN INVITED LECTURE SESSION I</b> Chairs: <b>Valery V. Tuchin</b> , Saratov State Univ., Russia; <b>Dan Zhu</b> , Huazhong Univ. of Science and Technology, China	Building 3, Room 8 Zoom

Coffee and tea will be available during the session

## September 27, Tuesday

9.00-13.00	<b>REGISTRATION OF PARTICIPANTS</b>	Building 3, 1 <sup>st</sup> floor
9.30-12.40	<b>ON-LINE CHINESE-RUSSIAN INVITED LECTURE SESSION II</b> Chairs: <b>Valery V. Tuchin</b> , Saratov State Univ., Russia; <b>Dan Zhu</b> , Huazhong Univ. of Science and Technology, China	Building 3, Room 8 Zoom
13.20-13.30 13.30-17.20	<b>WELCOME TO THE SFM-22 PARTICIPANTS/SFM PLENARY SESSION I</b> Chairs: <b>Valery V. Tuchin</b> , Saratov State Univ.; <b>Alexander V. Priezzhev</b> , Lomonosov Moscow State Univ., Russia <a href="https://osachapter.zoom.us/j/97105128804">https://osachapter.zoom.us/j/97105128804</a>	Building 8, Conf. Hall 420
13.30-14.10	<b>Tissue optical clearing imaging: from <i>in vitro</i> to <i>in vivo</i></b> <b>Dan Zhu</b> , Huazhong Univ. of Science and Technology, Wuhan, China	
14.10-14.50	<b>Breaking the laws of diffraction to obtain super resolved biomedical imaging</b> <b>Zeev Zalevsky</b> , Faculty of Engineering, Bar-Ilan Univ., Israel	
14.50-15.30	<b>Interstitial and intraluminal photodynamic therapy</b> <b>Ronald Sroka</b> , LIFE-Center at Department of Urology at Hospital of Univ. of Munich, Munich, Germany	
15.30-16.00	<b>Coffee break</b>	Building 8, 4th floor
16.00-16.40	<b>Transparent conducting films based on carbon nanotubes: rational design towards the theoretical limit</b> <b>Albert G. Nasibulin</b> , Skolkovo Inst. of Science and Technology, Moscow, Russia, Aalto Univ., Espoo, Finland	Moscow time 15.00-15.40
16.40-17.20	<b>Photodynamic inactivation and the possibility to control resistant infections</b> <b>Vanderlei S. Bagnato</b> , Univ. of São Paulo, IFSC, Brazil	Brazil time 10.40-11.20

				Zoom	Building 8, Conf. Hall 420
17.20-18.00	<b>OPTICA Short Course</b> <b>Polarization Optical Imaging for biomedical applications,</b> <b>Anna N. Yaroslavsky, Univ. of Massachusetts, Lowell, USA</b> <a href="https://osachapter.zoom.us/j/97105128804">https://osachapter.zoom.us/j/97105128804</a>			<b>USA time</b> 9.20-10.00 Zoom	
18.00-18-40	<b>SPONSORS SESSION</b> <a href="https://osachapter.zoom.us/j/97105128804">https://osachapter.zoom.us/j/97105128804</a>				
18.00-18-20	<b>Multispectral and multiwavelength methods in biomedical diagnostics with innovative fiber probes</b> <b>Viacheslav Artyushenko, art photonics GmbH, Berlin, Germany</b>			<b>Germany time</b> 17.00-17.20 Zoom	
18.20-18.30	<b>Introduction of "VISQUE™ InVivo" optical systems</b> <b>Hyunwoo Kim, Huisu Kim, Vieworks Co. Ltd, Korea,</b> <b>Chalov Sergey, In Vivo Tech, Russia</b>			<b>Moscow time</b> 17.20-17.30	
19.00-22.00	<b>Welcome Party</b>				Building 11
<b>September 28, Wednesday</b>					
10.00-14.00	<b>INVITED LECTURE/ ORAL SESSION BIOPHYSICS I / MICROSCOPY AND LOW-COHERENCE METHODS XIX</b> Chair: <b>Yury Kistenev, Tomsk State Univ., Russia</b> <a href="https://osachapter.zoom.us/j/97105128804">https://osachapter.zoom.us/j/97105128804</a>				Building 8, Hall 420 Zoom
	<b>ON-LINE / ORAL SESSION LOW-DIMENSIONAL STRUCTURES</b> Chair: <b>Olga Glukhova, Saratov State Univ., Russia</b> <a href="https://meet.google.com/gww-tbbm-two">https://meet.google.com/gww-tbbm-two</a>	Building 8, Room 318	<b>ORAL SESSION BIOCOMPUTING I</b> Chairs: <b>Dmitry E. Postnov, Saratov State Univ., Russia</b>		Building 3, Hall 64
	<b>INVITED LECTURE/ORAL SESSION NANOBIPHOTONICS I</b> Chair: <b>Nikolai G. Khlebtsov, IBPPM RAS, Saratov State Univ., Russia</b> <a href="https://osachapter.zoom.us/j/97105128804">https://osachapter.zoom.us/j/97105128804</a>				Building 9, Conf. Hall Zoom
14.00-14.30	<b>Coffee break</b>				Building 8, 4th floor
14.30-18.00	<b>LECTURE/ORAL SESSION EDUCATION I</b> Chairs: <b>Boris A. Medvedev, Saratov State Univ., Russia</b>	Scientific Library Conf. Hall	<b>ORAL SESSION LASER PHYSICS&amp;PHOTONICS</b> Chair: <b>Vladimir L. Derbov, Saratov State Univ., Russia</b>		Building 10, Hall 503
	<b>ON-LINE INVITED LECTURE / ON-LINE SESSIONS BIOPHYSICS II/ INTERNET BIOPHOTONICS II/ BIOMEDICAL SPECTROSCOPY I</b> Chairs: <b>Mikhail Kirillin, Institute of Applied Physics RAS, Russia</b> <a href="https://osachapter.zoom.us/j/97105128804">https://osachapter.zoom.us/j/97105128804</a>				Building 8, Conf. Hall 420 Zoom
16.00-16.30	<b>Coffee break</b>				Building 8, 4th floor
14.30-18.00	<b>ORAL SESSION NONLINEAR DYNAMICS</b> Chairs: <b>Galina I. Strelkova, Andrei V. Slepnev, Saratov State Univ., Russia</b>	Building 3, Room 38	<b>ORAL SESSION BIOCOMPUTING I</b> Chairs: <b>Dmitry E. Postnov, Saratov State Univ., Russia</b>		Building 3, Room 64



	<b>ON-LINE INVITED LECTURE/ORAL SESSION MACHINE LEARNING I</b> Chair: <b>Yury Kistenev</b> , Tomsk State Univ., Russia	<i>Microsoft Teams</i>	<b>ON-LINE INVITED LECTURE/ORAL SESSION NANOBIOPHOTONICS II</b> Chair: <b>Nikolai G. Khlebtsov</b> , IBPPM RAS, Saratov State Univ., Russia	<i>Building 9, Conf. Hall Zoom</i>
13.00-19.00	<b>ON-LINE INVITED LECTURE/ORAL SESSION ENDOGENOUS BIOPHOTONICS</b> Chair: <b>Ilya V. Volodyaev</b> , Moscow State Univ., European Medical Center, <b>Elena V. Naumova</b> , Rzhanov Institute of Semiconductor Physics, Siberian Branch of Russian Academy of Sciences, Russia <a href="https://us06web.zoom.us/j/9869890181">https://us06web.zoom.us/j/9869890181</a>			<i>Zoom</i>
15.30-18.00	<b>ON-LINE INVITED LECTURE /ORAL SESSION SPECTROSCOPY AND MOLECULAR MODELING I</b> Chair: <b>Lev M. Babkov</b> , Saratov State Univ., Russia <a href="https://us02web.zoom.us/j/9297707272">https://us02web.zoom.us/j/9297707272</a>			<i>Building 3, Room 34</i>
19.30-22.00	<b>Evening boat trip - the lights of Saratov</b>			
<b>September 29, Thursday</b>				
10.00-13.00	<b>ORAL SESSION NONLINEAR DYNAMICS</b> Chairs: <b>Galina I. Strelkova</b> , <b>Andrei V. Slepnev</b> , Saratov State Univ., Russia	<i>Building 3, Room 38</i>	<b>INVITED LECTURE/ORAL SESSION TERAHERTZ OPTICS &amp; BIOPHOTONICS</b> Chair: <b>Kirill I. Zaytsev</b> , Prokhorov General Physics Institute of RAS, Bauman Moscow State Technical Univ., Russia	<i>Zoom</i>
			<b>ORAL SESSION QUANTUM SCIENCE I</b> Chair: <b>Aleksey Fedorov</b> , Russian Quantum Center, Russia	<i>Skolkovo Institute of Science and Technology</i>
	<b>JOINT INVITED LECTURE/ORAL SESSION MACHINE LEARNING II</b> Chair: <b>Yury Kistenev</b> , Tomsk State Univ., Russia	<i>Building 9, Conf. Hall Microsoft Teams</i>	<b>ROUND TABLE DISCUSSION ENGLISH</b> Chair: <b>Svetlana V. Eremina</b> , <b>Alexander B. Pravdin</b> , Saratov State Univ., Russia	<b>Building 18</b>
	<b>INVITED LECTURE/ ORAL SESSION BIOPHYSICS III</b> Chair: <b>Vladimir Y. Zaitsev</b> , Inst. of Applied Physics of the RAS, Russia <a href="https://osachapter.zoom.us/j/97105128804">https://osachapter.zoom.us/j/97105128804</a>			<i>Building 8, Conf. Hall 420 Zoom</i>
11.00-12.00	<b>ORAL SESSION ELECTROMAGNETICS</b> Chair: <b>Michael V. Davidovich</b> , Saratov State University, Russia <a href="https://meet.google.com/hzz-vmdu-hwy">https://meet.google.com/hzz-vmdu-hwy</a>			<i>Building 8, Room 318</i>
12.00-14.30	<b>ON-LINE / ORAL SESSION LOW-DIMENSIONAL STRUCTURES</b> Chair: <b>Olga Glukhova</b> , Saratov State Univ., Russia <a href="https://meet.google.com/gww-tbbm-two">https://meet.google.com/gww-tbbm-two</a>			<i>Building 8, Room 318</i>

14.00-14.45	<b>PUBLIC LECTURE SESSION MODERN OPTICS</b> Chairs: <b>Georgy V. Simonenko</b> , Saratov State Univ., <b>Anton Dyachenko</b> , Saratov State Univ., Boarding school 64 <b>Modern devices for medical research on Earth and in Space</b> <b>Andrey Dunaev</b> , Leading Researcher of Research & Development Center of Biomedical Photonics, Orel State Univ., Orel, Russia			<i>Building 3, Big Physical Hall</i>
14.30-18.00	<b>ON-LINE INVITED LECTURE /ORAL SESSION SPECTROSCOPY AND MOLECULAR MODELING II</b> Chair: <b>Lev M. Babkov</b> , Saratov State Univ., Russia <a href="https://us02web.zoom.us/j/9297707272">https://us02web.zoom.us/j/9297707272</a>			<i>Building 3, Room 34</i>
15.00-15.40	<b>INTERNET PLENARY SESSION</b> Chair: <b>Valery V. Tuchin</b> , Saratov State Univ., Russia <b>MECHANISMS OF RECOVERY FUNCTIONS OF SLEEP</b> <b>Thomas Penzel</b> , Interdisciplinary Sleep Medicine Center, Charite Univ. Hospital, Berlin, Germany <a href="https://osachapter.zoom.us/j/97105128804">https://osachapter.zoom.us/j/97105128804</a>			<i>Building 8, Conf. Hall 420 Zoom</i>
15.40-18.00	<b>ON-LINE INVITED LECTURE/ ON-LINE SESSIONS BIOPHYSICS II/ INTERNET BIOPHOTONICS II</b> Chair: <b>Maxim E. Darwin</b> , Charité – Universitätsmedizin, Germany <a href="https://osachapter.zoom.us/j/97105128804">https://osachapter.zoom.us/j/97105128804</a>			<i>Building 8, Conf. Hall 420 Zoom</i>
15.00-18.00	<b>ORAL SESSION BIOMEDICAL SPECTROSCOPY II</b> Chairs: <b>Vyacheslav I. Kochubey</b> , <b>Alexander B. Pravdin</b> , Saratov State Univ., Russia	<i>Building 3, Room 8,</i>	<b>INVITED LECTURE/ORAL SESSION ADVANCED MATERIALS</b> Chair: <b>Vladimir N. Kurlov</b> , ISSP RAS, Russia	<i>Zoom</i>
16.30-16.50	<b>Coffee break</b>			<i>Building 8, 4th floor</i>
15.00-18.00	<b>ORAL SESSION QUANTUM SCIENCE II</b> Chair: <b>Aleksey Fedorov</b> , Russian Quantum Center, Russia	<i>Campus of the Skolkovo Institute of Science and Technology</i>	<b>ROUND-TABLE DISCUSSION EDUCATION</b> Moderator: <b>Boris A. Medvedev</b> , Saratov State Univ., Russia	<i>Scientific Library Conf. Hall</i>
18.00-20.00	<b>JOINT POSTER/INTERNET SESSION</b> Chairs: <b>Ivan V. Fedosov</b> , <b>Oleg Grishin</b> , Saratov State Univ., Russia Moderators: <b>Ivan V. Fedosov</b> , <b>Michael M. Slepchenkov</b> , <b>Vasily B. Ageev</b> , <b>Alexander I. Dubrovsky</b> , Saratov State Univ., Russia			<i>Building 3</i>
<b>September 30, Friday</b>				
10.00-13.00	<b>ON-LINE ORAL SESSION POLARIZATION</b> Chair: <b>Dmitry A. Zimnyakov</b> , Yuri Gagarin Saratov State Technical Univ., Russia <a href="https://osachapter.zoom.us/j/97105128804">https://osachapter.zoom.us/j/97105128804</a>			<i>Zoom</i>
14.00-18.00	<b>Round-table discussions and closing of SFM-22</b>			<i>Open Air Meeting</i>

