

Conference programme

27.01.2020 – Monday	
Time	Author – Title
16.00-19:00	Registration
19:00 - 21:00	<i>Welcome/Supper</i>
21:00	Committee meeting
28.01.2020–Tuesday	
Time	Title - Author
7:30 – 9:00	<i>Breakfast/Registration</i>
9:15	Opening Ceremony Prof. Wiesław Wolinski, prof. Ryszard Romaniuk and prof. Jan Dorosz
	<u>Plenary Session – Optical Fibers and Their Applications</u>
9:30	Nanoparticles-doped liquid crystal-infiltrated photonic crystal fibers with enhanced efficiency of electric field tunability Tomasz Woliński <i>Warsaw University of Technology</i>
10:10	2D materials for HOT infrared photodetectors Antoni Rogalski <i>Military University of Technology</i>
10:50-11:10	<i>Coffee break</i>
	Session II
11:10	Light beam steering with use of holographic liquid crystalline diffraction grating Katarzyna Rutkowska <i>Warsaw University of Technology</i>
11:30	Supercontinuum generation in hollow-core photonic crystal fibers filled with carbon tetrachloride Jacek Pniewski <i>University of Warsaw</i>
11:50	Transport of Rel-15/16 waveform radio signals over optical 5G fronthaul path Zbigniew Zakrzewski <i>UTP University of Science and Technology</i>
12:30-14:00	<i>Lunch</i>
	Session III
14:30	White light emission PMMA fibre co-doped with 1,4-Bis(2-methylstyryl)benzene and Rhodamine B for new optical applications Piotr Miluski <i>Bialystok University of Technology</i>
14:50	Transparent Er³⁺ doped oxyfluoride tellurite glass-ceramic for photonics applications Magdalena Leśniak <i>AGH University of Science and Technology</i>
15:10	Near IR and MID-IR emission in fluoroindate glasses co-doped with rare-earth ions and their implication for optical fiber drawing Marcin Kochanowicz <i>Bialystok University of Technology</i>
15:30	Plasmonic effect in optical fibers doped with lanthanides Jacek Żmojda <i>Bialystok University of Technology</i>
15:50-16:10	<i>Coffee break</i>
	Session IV
16:10	Polymer microtip on the end face of a multi-mode optical fiber Paweł Marć <i>Military University of Technology</i>
16:30	Distributed Sensing & Optical Fibre Sensors Jakub Koryciński <i>INTERLAB</i>
16:50	Ultrafast fiber lasers - challenges and accomplishments Dariusz Świerad <i>Fluence sp z o.o.</i>
17:30 – 18:45	Poster session
19:30–00:00	<i>Sleigh ride/fireplace/folk event</i>

29.01.2020 – Wednesday	
Time	Title –Author
7:30 – 9:00	<i>Breakfast</i>
	Session V - plenary
9:30	FOSREM - difficulties about solution transfer from laboratory to field applications Leszek R. Jaroszewicz <i>Military University of Technology</i>
10:10	Bent-induced long period grating in helical core fiber Wacław Urbańczyk <i>Wrocław University of Science and Technology</i>
10:50-11:20	<i>coffee break</i>
11:20	Active fibers for holmium fiber lasers Michał Kamrádek <i>Institute of Photonics and Electronics, Czech Academy of Sciences</i>
11:40	Experimental Demonstration of Gain-switched Dy:ZBLAN fiber laser operating at 2.94 μm Łukasz Sójka <i>Wrocław University of Science and Technology</i>
12:00	High power around 3 μm fiber laser Łukasz Pajewski <i>Wrocław University of Science and Technology</i>
12:30 – 14:00	<i>Lunch</i>
	Session VI
14:30	Fiber optic sensors laminated in composite materials for UV monitoring Piotr Lesiak <i>Warsaw University of Technology</i>
14:50	Vapor concentration monitoring with a simple fiber optic sensor Sławomir Ertman <i>Warsaw University of Technology</i>
15:10	Mode Filters for Multimode Fiber Transmission Grzegorz Zeglinski <i>West Pomeranian University of Technology, Szczecin</i>
15:30	Operators view of the FTTH and Mobile fiber network convergence Zbigniew Koper <i>Orange Labs Polska</i>
15:30-15:50	<i>coffee break</i>
	Session VII – early stage researchers
15:50	Arc fusion splicing of hollow-core antiresonant fibers Maciej Popena <i>Wrocław University of Science and Technology</i>
16:10	Femtosecond pulse delivery around 1560 nm in large-core anti-resonant fibers Dominik Dobrakowski <i>University of Warsaw</i>
16:30	Comparison of two methods for coupling of InGaAs quantum dot to single mode fiber Kinga Żołnacz <i>Wrocław University of Science and Technology</i>
16:50	Analysis of atherosclerotic lesions in the human body Natalia Malinowska <i>Wrocław University of Science and Technology</i>
17:10	Effect of rare-earth doping on the biological properties of bioactive glass Agata Baranowska <i>Białystok University of Technology</i>
17:30	Overhead transmission line sag estimation using the simple opto-mechanical system with fiber Bragg gratings Damian Harasim <i>Lublin University of Technology</i>
19:30	<i>Banquet</i>

19th Conference on Optical Fibers
and Their Applications

30.01.2020 – Thursday	
Time	Title - Author
8:00-10:00	<i>Breakfast</i>
10:00 – 14:00	Excursion to Bialowieza
14:00 – 15:30	<i>Lunch</i>
	Session VIII
15:30	Fiber Bragg gratings in nanostructured optical fibers Tomasz Osuch <i>Warsaw University of Technology</i>
16:10	Lightning strike tests for optical fiber current sensor with external conversion Kamil Barczak <i>Silesian University of Technology</i>
16:40 – 17:00	<i>coffee break</i>
	Session IX
17:00	Polarization beam splitter based on the dual hollow core antiresonant fiber for biomedical applications Hanna Stawska <i>Wrocław University of Science and Technology</i>
17:20	Optical properties of blue phase liquid crystal in photonic microstructures Kamil Orzechowski <i>Warsaw University of Technology</i>
17:40	Design and manufacture of nonlinear hole-assisted optical fiber for enhanced soliton self-frequency shifting Marek Biduś <i>FIBRAIN Sp. z o.o., Poland</i>
19:00 – 22:00	Closing Ceremony <i>supper</i>

31.01.2020 - Friday	
Time	
7:30 – 9:00	<i>Breakfast</i>
9:15	Travel to Białystok – conference BUS

Attention

- Official language is **English**

Poster session, 28.01.2020, 17:30 – 18:45

Lp.	Authors	Title
1	Marzena M. Sala-Tefelska ¹ , Kamil Orzechowski ¹ , Filip A. Sala ¹ , Tomasz R. Woliński ¹ , Olga Strzeżysz ² , Przemysław Kula ² , Sylwia Polakiewicz ³ , Wiktor Lewandowski ³ ¹ <i>Faculty of Physics, Warsaw University of Technology</i> ² <i>Faculty of Advanced Technologies and Chemistry Military University of Technology, ,Warsaw</i> ³ <i>Faculty of Chemistry, University of Warsaw</i>	Chiral Nematic Liquid Crystal in a Blue Phase doped with gold nanoparticles as a new optical material for photonics
2	Jacek Kuszniér <i>Białystok University of Technology</i>	Studies on spectral properties and light efficiency of smart light sources
3	Piotr Kisała, Jacek Klimek, Patryk Panas, Damian Harasim, Sławomir Ciężczyk, Bakhyt Yerallyeva, Waldemar Wójcik <i>Lublin University of Technology</i>	Positive aspects of FBG side lobes in overhead transmission line sag estimation
4	Wojciech A. Pisarski, Joanna Pisarska <i>University of Silesia</i>	New multicomponent titanate-germanate glasses and their luminescence properties
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	Bogusław Szczupak, Mateusz Mądry <i>Wrocław University of Science and Technology</i>	Smart mat for load measurement based on distributed fiber optic sensor technology
6	Michał Dłubek <i>Fibrain sp. z o.o.</i>	Development of thermally-expanded core connectors for large MFD expansion
7	Zbigniew Zakrzewski ¹ , Bogdan Łąga ² ¹ <i>UTP University of Science and Technology</i> ² <i>Chopin Telewizja Kablowa Sp. z o.o.,</i>	Potential use of fiber-optic and Li-Fi systems in private 5G/6G networks dedicated to the industrial IoT
8	Piotr Sobotka ¹ , Szymon Baczyński ¹ , Kasper Marchlewicz ² , Artur Dybko ² , Katarzyna A. Rutkowska ¹ ¹ Warsaw University of Technology, Faculty of Physics, Koszykowa 75, 00-662 Warsaw ² Warsaw University of Technology, Faculty of Chemistry, Noakowskiego 3, 00-664 Warsaw	LC:PDMS photonic systems for sensing applications
9	Piotr Golonko ¹ , Jacek Żmojda ¹ , Piotr Miluski ¹ , Marcin Kochanowicz ¹ , Agata Baranowska ¹ , Tomasz Ragiń ¹ , Magdalena Leśniak, Domini ² k Dorosz ² , Jan Dorosz ¹ ¹ <i>Białystok University of Technology</i> ² <i>AGH University of Science and Technology</i>	Spectroscopic properties of antimony-germanate glass-ceramic doped with Eu³⁺ ions
10	B. Satrzyk ¹ , M. Lesniak ¹ , M. Kochanowicz ² , J. Zmojda ² , A. Baranowska ² , P. Miluski ² , J. Dorosz ² , M. Kuwik ³ , J. Pisarska ³ , W. A. Pisarski ³ , M. Sitarz ¹ , D. Dorosz ¹ ¹ <i>AGH University of Science and Technology,</i> ² <i>Białystok University of Technology,</i> ³ <i>University of Silesia,</i>	Effect of Te/Ge ratio on structural and spectroscopic properties of Eu³⁺-doped tellurite-germanate glasses
11	Adam Paździor, Paweł Mergo <i>Maria Curie-Skłodowska University</i>	Influence of the structure of an optical fiber on change with temperature of the amplitude of Raman scattering"
12	Anna Kiczor, Lidia Czyżewska, Renata Łyszczek, Paweł Mergo <i>Maria Curie-Skłodowska University</i>	Technology of active nano-crystals for polymer optical fibers"
13	Aleksander Walewski, Grzegorz Wójcik, Paweł Mergo <i>Maria Curie-Skłodowska University</i>	Influence of protective coatings thickness on the optical fibers mechanical characteristics"
14	Mariusz Makara, Krzysztof Poturaj, Grzegorz Wójcik, Paweł Mergo <i>Maria Curie-Skłodowska University</i>	Improvement of technology accuracy of microstructured optical fibers with shapened dispersion