Monday, September 5

9:00-9:15	OPENING CEREMONY Conference venue: Faculty of Law, Administration, and Economics, University of Wrocław ulica Uniwersytecka 22/26, 50-145 Wrocław
	SPECIAL SESSION
	Announcement and invited talk of the Sturge Prize Winner
9:15-09:45	EXCITATION MANAGEMENT AT INTERFACE OF ORGANIC MOLECULE-LANTHANIDE NANOCRYSTAL HYBRID NANOSYSTEM
	Renren Deng, Zhejiang University
	SESSION 1 – DOPED INSULATORS 1 – chair W. Stręk
	TL1
9:45-10:30	PHOTONIC EFFECTS IN LUMINESCENCE SPECTROSCOPY Andries Meijerink, Utrecht University, The Netherlands
	IL1
10:30-11:00	LASER REFRIGERATION OF SAPPHIRE
	Stephen Rand, University of Michigan, USA
11:00-11:30	COFFEE BREAK
	SESSION 2 – PHOSPHORS 1 – chair S. Mahlik
	IL2
11:30-12:00	·
11.30-12.00	CHARGE TRANSFERS PROCESSES IN PHOSPHORS: EMISSION, QUENCHING AND TRAPPING
	Jonas Joos, Ghent University, Belgium
12:00-12:15	O1 INFRARED AND VISIBLE COOPERATIVE LUMINESCENCE OF Yb ³⁺ IONS IN MULTISITE YAM CRYSTAL
	Michał Malinowski, Warsaw University of Technology, Institute of Microelectronics and Optoelectronics, Polan
	O2
12:15-12:30	EMISSION QUENCHING BY AUGER PROCESSES IN Tm DOPED II-VI MATERIALS
	Jarosław Kaszewski, Institute of Physics, Polish Academy of Sciences, Warsaw, Poland
	03
12:30-12:45	INSIGHT INTO THE ENERGY TRANSFER MECHANISM BETWEEN ELPASOLITE HOSTS AND INCORPORATED YTTERBIL
	Jur de Wit, Utrecht University, The Netherlands
	O4
12:45-13:00	UNDERSTANDING THE GIANT EMISSION REDSHIFT IN CONCENTRATED Mn ²⁺ PHOSPHORS
12.45-13.00	Arnoldus van Bunningen, Utrecht University, The Netherlands
13:00-15:00	LUNCH TIME
13.00-13.00	SESSION 3-PHOSPHOPRS 2 – chair M. Malinowski
15 00 15 00	IL3
15:00-15:30	LUTDA DEGARDANE NEAD INFOARED BUGGELLORG FOR LIGHT ENVITTING BLODES
_5.55 15.50	ULTRA-BROADBAND NEAR-INFRARED PHOSPHORS FOR LIGHT-EMITTING DIODES
	Sebastian Mahlik, University of Gdańsk, Poland
	Sebastian Mahlik, University of Gdańsk, Poland IL4
15:30-16:00	Sebastian Mahlik, University of Gdańsk, Poland IL4 LOW PHONON GLASS-CERAMICS FOR ACTIVE PHOTONICS
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Monday, September 5

Tuesday, September 6

		SESSION 5 – THERMOMETRY – chair A. Meijerink
		TL2
	9:15-10:00	ANOMALIES IN LIQUID WATER QUIZZED THROUGH UPCONVERSION THERMOMETRY Luis Carlos, University of Aveiro, Portugal
	10:00-10:30	IL6 LUMINESCENCE THERMOMETRY - NOT ONLY AN APPLICATION BUT A NEW PERSPECTIVE ON NON-RADIATIVE RATES Markus Suta, Heinrich Heine University Düsseldorf, Germany
	10:30-11:00	IL7 THEORETICAL MODELING OF LANTHANIDE-BASED LUMINESCENT THERMOMETERS Albano Carneiro, University of Aveiro, Portugal
	11:00-11:30	COFFEE BREAK
		SESSION 6 – LUMINESCENT SENSORS 1 – chair L. Carlos
		IL8
	11:30-12:00	APPLICATIONS OF HYBRID LUMINESCENT (NANO)THERMOMETERS Anna Kaczmarek, Department of Chemistry, Ghent University, Belgium
	12:00-12:30	IL9 LANTHANIDE ACTIVATED KY ₃ F ₁₀ NANOPARTICLES FOR NANOTHERMOMETRY Adolfo Speghini , University of Verona, Italy
		O10
	12:30-12:45	LUMINESCENCE-BASED RATIOMETRIC OPTICAL POWER METER Lukasz Marciniak, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, Poland
ber 6	12:45-13:00	O11 Pr-ACTIVATED GARNETS FOR WIDE-RANGE LUMINESCENCE THERMOMETRY Eugeniusz Zych, University of Wroclaw, Faculty of Chemistry, Poland
Septemb	13:00-15:00	LUNCH TIME
		SESSION 7 – LUMINESCENT SENSORS 2 – chairs M. Suta & A. Corneiro
Tuesday,	15:00-15:15	O12 A Ho ³⁺ -BASED LUMINESCENT THERMOMETER FOR SENSITIVE SENSING OVER A WIDE TEMPERATURE RANGE Freddy Rabouw, Utrecht University, The Netherlands
_	15:15-15:30	O13 SrB ₄ O ₇ DOPED WITH DIVALENT LANTHANIDE IONS (Eu ²⁺ , Sm ²⁺ , Tm ²⁺) – A MULTIFUNCTIONAL SENSING PLATFORM FOR HIGH-SENSITIVITY LUMINESCENCE MANOMETRY & THERMOMETRY Marcin Runowski, Departamento de Física, Universidad de La Laguna, Tenerife, Spain
	15:30-15:45	O14 THE ROLE OF Cr³+ IONS IN THE PERFORMENCE OF MULTIFUNCIONAL NANOPARTICLES FOR LUMINESCENCE THERMOMETRY AND OPTICAL HEATING APPLICATIONS Kamila Maciejewska, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław,
	15:45-16:00	Poland O15 YAG:Tb-YAG:Pr SINGLE CRYSTAL-THIN FILM HYBRID LUMINESCENCE THERMOMETER
		Joanna Jedoń, University of Wroclaw, Faculty of Chemistry, Poland
	16:00-16:15	O16 EXTENDING THE DYNAMIC TEMPERATURE RANGE OF BOLTZMANN THERMOMETERS Thomas van Swieten, Utrecht University, The Netherlands
	16:15-17:15	IL10 (on-line) Cr ³⁺ -BASED LUMINESCENT SENSORS: DESIGN, STRENGTHS AND WEAKNESSES Michele Back, Ca' Foscari University of Venice, Italy
	17:00-17:15	CONFERENCE PHOTO
	17:15-18:30	COFFEE BREAK & POSTER SESSION

Wednesday, September 7

	SESSION 8 – QUANTUM TECHNOLOGIES - chair M. Reid				
	- COUNTY - CONTINUE - CHAIR THE TOTAL				
Wednesday, September 7	9:15-9:45	IL11 SPECTROSCOPY AND COHERENT CONTROL OF INDIVIDUAL ERBIUM DOPANTS Andreas Reiserer, Max-Planck-Institute of Quantum Optics and TU Munich, Germany			
	9:45-10:30	TL3 RARE EARTH DOPED CRYSTALS FOR QUANTUM TECHNOLOGIES Philippe Goldner, French National Centre for Scientific Research, France			
	10:30-11:00	IL12 RARE-EARTH MOLECULAR CRYSTALS WITH ULTRA-NARROW OPTICAL LINEWIDTH FOR PHOTONIC QUANTUM TECHNOLOGIES Diana Serrano , IRCP, Chimie ParisTech, CNRS, France			
	11:00-11:30	COFFEE BREAK			
	SESSION 9 – QUANTUM & OPTICAL MATERIALS – chair P. Goldner				
	11:30-12:00	IL13 OPTICAL GATE OPERATIONS IN RARE EARTH IONS AND THEIR ROLE IN QUANTUM COMPUTING Andreas Walther, Lund University, Sweden			
	12:00-12:15	O17 PRESSURE INDUCED CHANGES IN THE OPTICAL PROPERTIES OF Mn ⁴⁺ DOPED FLUORIDE PHOSPHORS Tadeusz Leśniewski , Faculty of Mathematic, Physics and Informatics, University of Gdańsk, Poland			
	12:15-12:30	O18 OPTICAL THERMOMETER BASED ON THE LUMINESCENCE OF A_2MgWO_6 DOPED WITH Dy ³⁺ (A = Ca, Sr, Ba) T.H.Q. Vu , Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, Poland			
	12:30-12:45	O19 TEMPERATURE DEPENDENCE OF THE COHERENCE PROPERTIES OF 171Yb ³⁺ IONS IN Y2SiO5 CRYSTALS Federico Chiossi, Chimie ParisTech, PLS University, CNRS, Institut de Recherche de Chimie, Paris 75005, France			
	12:45-13:00	O20 (on-line) NEAR-FIELD SCANNING OPTICAL MICROSCOPY OF MOLECULAR AGGREGATES: THE ROLE OF LIGHT POLARIZATION Sidhartha Nayak, Max Planck Institute for the Physics of Complex Systems, Dresden, Germany			
	13:00-15:00	LUNCH TIME			
	16:00-22:00	CONFERENCE EXCURSION			

Thursday, September 8

	SESSION 10 – THEORY & NON-LINEAR PHENOMENA – chair M. Ramirez						
	9:15-10:00	TL4 MAKING SENSE OF RARE-EARTH ELECTRONIC STRUCTURE Mike Reid, University of Canterbury, New Zealand					
	10:00-10:30	IL14 SILVER NANOWIRE – THE PLASMONIC MAGIC WAND Sebastian Maćkowski, Nicolaus Copernicus University in Toruń, Poland					
	10:30-10:45	O21 ULTRAFAST MAGNETO-ELECTRIC NONLINEARITY Gregory Smail, University of Michigan, USA					
	10:45-11:00	O22 OXYGEN VACANCIES IN LUTETIUM OXIDE AS ELECTRON TRAPS: PLANE-WAVE DFT AND AB INITIO MULTICONFIGURATIONAL APPROACHES Andrii Shyichuk, University of Wroclaw, Poland					
	11:00-11:30	COFFEE BREAK					
		SESSION 11 – NEW MATERIALS & (BIO)LABELS – chair A. Kaczmarek, T. Grzyb					
September 8	11:30-12:00	IL15 INTRINSIC AND DEFECT-RELATED LUMINESCENCE OF GARNET AND PEROVSKITE COMPOUNDS Yuriy Zorenko, Kazimierz Wielki University in Bydgoszcz, Poland					
	12:00-12:30	IL16 POLARIZED NANO-EMITTERS AS ORIENTATION PROBES IN BIOFLUIDS Zijun Wang , Ecole Polytechnique, France					
	12:30-12:45	O23 THE MOST INTRIGUING FEATURES OF Ln ³⁺ CHELATES WITH N-PHOSPHORYLATED AMIDES: BRILLIANT LUMINESCENCE AND SINGLE-ION MAGNET BEHAVIOR, TRANSFER VIA SINGLET, THE RESONANCE EFFECT Paula Gawryszewska, , University of Wroclaw, Poland					
	12:45-13:00	O24 COHERENT ANTI-STOKES RAMAN SCATTERING AND SECOND HARMONIC GENERATION SPECTROSCOPY AND IMAGING OF DNA CONSTITUTES AND COLLAGEN Galyna Dovbeshko, Institute of Physics of National Academy of Sciences of Ukraine, Kyiv, Ukraine					
	SESSION 12 – UPCONVERSION 1 – chair D. Serrano						
Thursday,	13:00-15:00	LUNCH TIME					
	15:00-15:45	TL5 (on-line) AMPLIFYING THE POTENTIAL OF UPCONVERTING NANOPARTICLES Peter James Schuck, Columbia University, USA					
	15:45-16:15	IL17 STARTEGIES TO ENHANCE VIS-TO-UVC UPCONVERSION IN PR ³⁺ DOPED FLUORIDE NANO- AND MICRO-CRYSTALS Dominika Wawrzyńczyk , Wroclaw University of Technology, Poland					
	16:15-16:30	O25 AVALANCHE EMISSION FOR NEW BIOMEDICAL APPLICATIONS Artur Bednarkiewicz, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, Poland					
	16:30-17:00	COFFEE BREAK					
	SESSION 13 – UPCONVERSION 2 – chair A. Bednarkiewicz						
	17:00-17:15	O26 ON THE WAY TOWARDS PHOTON AVALANCHE INTENSITY RISE DYNAMICS ENGINEERING Marcin Szalkowski, Institute of Low Temperatures and Structure Research, Wrocław, Poland					
	17:15-17:45	IL18 TAKING ADVANTAGE OF Er ³⁺ IONS IN UP-CONVERTING CORE@SHELL NANOPARTICLES Tomasz Grzyb , Adam Mickiewicz University, Poznań, Poland					
	17:45-18:15	IL19 AN ANHYDROUS APPROACH FOR LIGHT HARVESTING UPCONVERTING NANOPARTICLES Gilles Ledoux, University Lyon 1/CNRS, France					
	20:00-	CONFERENCE BANQUET Venue: RESTAURACJA FORUM KULINARNE, plac Wolności 4, Wrocław					

Friday, September 9

		CECCION 14 DODED INCLII ATODS 9 DEFECTS chair A Speakini		
	SESSION 14 – DOPED INSULATORS & DEFECTS – chair A. Speghini			
	9:15-10:00	TL6 (on-line) CHARGING/FADING PROCESS OF ELECTRON TRAPS IS VISIBLE IN TRANSPARENT GARNET CERAMICS Setsuhisa Tanabe, Kyoto University, Japan		
	10:00-10:30	IL20 (on-line) CRYSTAL ENGINEERING DESIGN: A TOOLBOX FOR UNPRECEDENT NEAR-INFRARED EMISSION Zhiguo Xia, South China University of Technology, China		
	10:30-11:00	IL21 (on-line) DEFECT SPECTROSCOPY IN METAL HALIDE PEROVSKITES: A THEORETICAL INSIGHT Chong-Geng Ma, Chongqing University of Posts and Telecommunications, Chongqing, China		
	11:00-11:30	COFFEE BREAK		
6 7		SESSION 15 – NEW LUMINESCENT MATERIALS – chair – Y. Zorenko		
Friday, September	11:30-11:45	O27 MULTIPHOTON IONIZATION PHENOMENA IN Cr:YAG TRANSPARENT CERAMICS UNDER NIR EXCITATION Mykhailo Chaika, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Poland		
	11:45-12:00	O28 QUANTUM TELEPORTATION BY ENTANGLED PHONONS IN SPATIALLY SEPARATED MACROSCOPIC AL PLATES AT ROOM TEMPERATURE AND PHONON RESONANCE EFFECTS ON SYNCHRONIZATION OF OSCILLATION PHASE OF O-H BONDS AND H-BOND NETWORK IN LIQUID WATER, LOWERING ISOTHERMALLY PHONON AND CONFIGURATIONAL ENTROPY, REVEALED BY MICRO-RAMAN SPECTROSCOPY Małgorzata Samsel-Czekała, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, Poland		
	12:00-12:15	O29 LASER-DRIVEN EMISSION OF GRAPHENE FOAM AS A SPATIALLY COHERENT SOURCE OF WHITE LIGHT Mateusz Oleszko, Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, Poland		
	12:15-12:30	O30 BROADBAND LASER-INDUCED WHITE EMISSION OF $La_{1-x}Nd_xAlO_3$ PEROVSKITE NANOCRYSTALS IN ALCOHOLS Joao Goncalves , Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wrocław, Poland		
	12:30-13:00	IL22 TWO-BEAM STUDIES OF RECOMBINATION PROCESSES IN β-Ga ₂ O ₃ ; A NEW SEMICONDUCTING SCINTILLATION MATERIAL Andrzej J. Wojtowicz, Nicolaus Copernicus University, Toruń, Poland		
	13:00-15:00	CLOSING CEREMONY		