

Thursday, August 23		
08.00-09.45	Registration, Accommodation	UMC Central Building
	Distribution of the conference materials	
09.45-10.00	Opening Session Welcome message: Cornel Panait, Rector of Constanta Maritime University	
10.00-10.15	Presentation of the HORESEC project: Cornel Panait, Gheorghe Lazaroiu	
10.15-13.45	<u>Plenary Session</u> Chairs: Paul Schiopu, George Caruntu, Marian Vladescu, Razvan Tamas	
13.45	Photo Remember ATOM-N 2018	
14.30-15.30	Lunch	Nautical Training Center
15.30-18.10	<u>Oral Session 1:</u> (Topic1) Advanced materials and new technologies / (Topic 2) Diffractive, micro optics Chairs : Aurelian Popescu, Aurica Farcas	Room A
	<u>Oral Session 2:</u> (Topic 5) Modeling, design, and simulation Chairs : Emil Oanta, Titus Sandu	Room B
18.40	Welcome cocktail	
Friday, August 24		
09.00-12.00	<u>Oral Session 3:</u> (Topic 3) Sensors, microsystems, and instruments Chairs : Marian Vladescu, Florin Toadere	Room A
	<u>Oral Session 4:</u> (Topic 8) Biomedical optoelectronics Chairs : Mona Mihailescu, Mihai Ionica	Room B
12.00-14.00	<u>Posters Session 1</u> Chairs : Nicolae Enachi, Dorin Dadarlat, Tatiana Tozar, Eugen Scarlat	Nautical Training Center, Hall
14.00-15.00	Lunch	
15.00-18.50	<u>Posters Session 2</u> Chairs : Cristea Ionica, Titus Sandu, Nicolae Militaru, Ionescu Viorel, Carmen Voicu, Paul Schiopu, Simona Halunga, Octavian Fratu	Nautical Training Center, Hall
19.00	Dinner	
Saturday, August 25		
09.00-11.20	<u>Oral Session 3: continued</u> (Topic 3) Sensors, microsystems, and instruments Chairs : Adrian Tulbure, Mihai Boni	Nautical Training Center, Room A
	<u>Oral Session 5:</u> (Topic 4) Micro/ nanophotonics and micro/ nanotechnologies, Chair : Razvan Tamas, Alin Danisor	Nautical Training Center, Room B
	<u>Oral Session 6:</u> (Topic 6) Optics-inspired approaches for non-optical applications: systems, devices, and signal processing, Chair : Alin Danisor, Razvan Tamas	
11.30-13.30	<u>Posters Session 3</u> Chairs : Mona Mihailescu, Dragos Vizireanu, Constantin Hutanu, Emil Petrescu	Nautical Training Center, Hall
14.00-15.00	Lunch	
15.00-17.00	<u>Posters Session 4</u> Chairs : Razvan Tamas, Alin Danisor, Violeta Vali Ciucur, Emil Oanta	
17.00	Cultural Program	
19.30	Conference Dinner and Paper Awards	
Sunday, August 26		
09.30 -11.00	Round Table Chair : Cristea Ionica	Nautical Training Center
11.30	Closing Session	

Thursday, August 23

10.15-13.30- Plenary Session

Chairs: Paul Schiopu, George Caruntu, Marian Vladescu, Razvan Tamas

10.15 OMN100-169, Polymer Dispersed Liquid Crystals films doped with carbon nanotubes - preparation methods **(Invited)**,

Prof. Doina Manaila Maximean, University Politehnica of Bucharest (Romania);

10.45 OMN100-88, Laser methods in fighting MDR acquired by bacteria **(Invited)**,

Dr. Tatiana Tozar, National Institute for Laser, Plasma and Radiation Physics (Romania);

11.15 OMN100-4, Modeling the optical forces and torques action on birefringent microplates **(Invited)**,

Prof. C.Yu. Zenkova, Yuriy Fedkovych Chernivtsi National Univ (Ukraine)

11.45 OMN100-21, General Solving Concepts in Models Design **(Invited)**,

Dr. Emil M. Oanta, Constanta Maritime University (Romania)

12.15 OMN100-20, Photothermoelectric (PTE) detection of magnetic phase transitions based on liquid thermoelectric (LTE) materials as sensors **(Invited)**,

Dr. Dorin Dadarlat, INCDTIM (Romania)

12.45 OMN100-172, Optoelectronics Effects In Modernization of Advanced Implants **(Invited)**,

Prof. Nicolae A. Enaki, Institute of Applied Physics (Moldova);

13.15 OMN100-185, Holographic techniques for free space optical communications **(Invited)**,

Dr. Eugen Scarlat, Politehnica University of Bucharest (Romania)

13.45 Photo Remember ATOM-N 2018

14.30 – Lunch

Session	<u>Oral Session 1</u> (Topic 1)Advanced materials and new technologies/ (Topic 2)Diffractive, micro optics	<u>Oral Session 2</u> (Topic 5)Modeling, design, and simulation
CHAIRS	Dr. Aurelian Popescu, Dr. Aurica Farcas	Dr. Emil M. Oanta, Dr. Titus Sandu
15.30-15.50	OMN100-5 Reduction of wear in slider bearings by laser micro-texturing, Dr. Cristian Viespe, INFLPR	OMN100-22 , Upgraded original automatic interpolation data processor, Dr. Emil M. Oanta, Constanta Maritime University
15.50-16.10	OMN100-15 The effect of the macrocyclic encapsulation on the photophysical properties of conjugated polymers, Dr. Aurica Farcas, Institute of Macromolecular Chemistry	OMN100-94 , General data structure for the dynamic memory allocation in the development of the computer based models in engineering, Dr. Emil M. Oanta, Constanta Maritime University
16.10-16.30	OMN100-69 , High nonlinear behavior of optical reflectivity in surface plasmon resonance structures which contain amorphous As ₂ S ₃ thin films, Dr. Aurelian Popescu INOE 2000,	OMN100-74 , Biometric Evaluation of Palmlines by Microstrip Line Networks, Bogdan-Mihai Gavrilaoia, University Politehnica of Bucharest
16.30-16.50	OMN100-70 , Cochenille red dye decoloration and chromate reduction simultaneously in acid medium, Dr. Doina I. Sibiescu, Technical University of Iasi	OMN100-43 , Noise minimizing by harmonic phase diffraction gratings in off-axis lensless digital holography, Alexei Meshalkin Veronica Cazac, Institute of Applied Physics of Moldova
16.50-17.10	OMN100-92 , UV Protection of Ultra-Thin ZnO Film on Viscose, Dr. Marian C. Popescu, IMT Bucharest	OMN100-67 , AC-electrokinetic behavior of biological cells beyond the dipole approximation Dr. Titus Sandu, IMT Bucharest
17.10-17.30	OMN100-133 , Optimization of Laser-Processed Large Area Plasmonic Substrates for Trace Analysis, Mr. Andrei Stochioiu, INFLPR	OMN100-131 , The use of relays in uplink MU Massive-MIMO system, Miss Carmen Voicu, University Politehnica of Bucharest
17.30-17.50	OMN100-166 , The simulation and prototyping of a low power wireless charger, Prof. Emilian Ceuca, University of Alba Iulia	OMN100-137 , Practical considerations about LiFi communications, Mr. Viorel Manea, INSCC Bucharest

18.40 Welcome cocktail

Friday, August 24

Session	Oral Session 3 (Topic 3) Sensors, microsystems, and instruments	Oral Session 4 (Topic 8) Biomedical optoelectronics
CHAIRS	Prof. Marian Vladescu, Dr. Florin Toadere	Prof. Mona Mihailescu, Dr. Mihai Ionica
09.00-09.20	OMN100-171 , Impedance Spectroscopy and Electro-Optic Response of Liquid Crystal Hydroxypropyl Cellulose Network Prof. Octavian Dănilă, Politehnica University of Bucharest	OMN100-108 , Nanostructured silicon platform for detection of specific gene sequences, PhD Melania A. Banu, Faculty of Biolog, University of Bucharest
09.20-09.40	OMN100-146 , Theoretical characterization and electrical parameter determination for organic solar cells, PhD student Ana Bărar, University "Politehnica" of Bucharest (Romania)	OMN100-103 , Optoelectronic method for identifying Fentanyl and the main metabolite Norfentanyl, Mrs. Raluca-Andreea Băjănar, University "Politehnica" of Bucharest, (Romania)
09.40-10.00	OMN100-162 , Design and implementation of redundant integrated Human and Equipment Indoor Tracking System, A. D. Costea, Univ. Politehnica of Bucharest (Romania)	OMN100-182 , Optoelectronic method for increasing the sensibility of mass spectrometer in the case of the determination of papaverine, PhD Student Daniel-Petrisor Hristea, University of Medicine and Pharmacy "Carol Davila" (Romania)
10.00-10.20	OMN100-163 , Stand alone collision warning and avoidance system, A. D. Costea, Univ. Politehnica of Bucharest (Romania)	OMN100-123 , Optoelectronic method for determining tramadol and its metabolites from urine samples, Maria-Gabriela Neicu, University of Medicine and Pharmacy "Carol Davila" (Romania)
10.20	Coffee	Coffee
10.40-11.00	OMN100-39 , Noise removal from raw OCT images achieved using an OCT system operating in the bandwidth 827 nm - 873 nm Florin Toadere, INCDTIM Cluj Napoca	OMN100-80 , Optoelectronic Method for Detection of Letrozole and its Metabolite in Urine Samples, Mrs. Georgeta Marcela Bican, Doping Control Laboratory
11.00-11.20	OMN100-83 , Investigation of optical properties of periodically arranged gold nanostructured patterns in transparent polymer, Dr. Nicoleta Tosa, INCDTIM Cluj Napoca	OMN100-119 , Optoelectronic method for determining the selective serotonin reuptake inhibitors antidepressants, Maria-Gabriela Neicu, University of Medicine and Pharmacy "Carol Davila" (Romania)
11.20-11.40	OMN100-174 , Automatic test stand for glass optical fiber with straight tip connector in digital transmission, Constantin Hutanu, University of Alba Iulia	OMN100-129 , Performance evaluation of immunoassay methods using innovative Westgard method decision chart/six sigma - metric tool, Dr. Ani Toboc, Doping Control Laboratory
11.40-12.00	OMN100-178 , Automatic test stand for plastic optical fiber analogue transmission, Constantin Hutanu, University of Alba Iulia	OMN100-114 , Gas-Chromatography –Tandem Mass Spectrometry (GC-MS) method for the determination of glycerol in human urine samples, Mrs. Manuela Dobrescu, Doping Control Laboratory

12.00-14.00 [Posters Session 1](#)

14.00 Lunch

15.00-18.50 [Posters Session 2](#)

19.00 Dinner

Saturday 25 August

Session	Oral Session 3 (continued) (Topic 3) Sensors, microsystems, and instruments	Oral Session 5 (Topic 4) Micro/ nanophotonics and micro/ nanotechnologies
CHAIRS	Prof. Adrian Tulbure, Dr. Mihai Boni	Prof. Razvan Tamas, Prof. Alin Danisor
09.00-09.20	OMN100-177 , New method of debugging measurement errors due to small voltage variations on the Gunn diode for excellent measurement accuracy in the range 8.5-9.5 GHz, Constantin HUTANU, University of Alba Iulia	OMN100-73 , Synthesis and characterization of novel coordination compound $\text{Eu}(\text{DBM})_3(\text{Ph}_3\text{PO})\text{H}_2\text{O}$, Ms. Bordian Olga, Institute of Applied Physics Moldova
09.20-09.40	OMN100-150 , Experimental Investigation of Electromagnetic Indoor Radiation within an Electronics Factory, Prof. Adrian Tulbure, University of Alba Iulia	OMN100-41 , Manipulation of micro-bubbles in water by CW laser, Dr. Peter P. Maksimyak, National University, Ukraine
09.40-10.00	OMN100-98 , Resonant and unresonant interaction of laser beams with pendant droplets having different contents (Invited) Dr. Mihai Boni, INFLPR	OMN100-91 , Control of quantum correlation between atoms placed in coupled cavities, Mr. Sergiu Bazgan, Institute of Applied Physics Moldova
10.00	Coffee	Coffee
	Oral Session 6 (Topic 6) Optics-inspired approaches for non-optical applications: systems, devices, and signal processing	Oral Session 4 (continued) (Topic 8) Biomedical optoelectronics
CHAIRS	Prof. Alin Danisor, Prof. Razvan Tamas	Prof. Mona Mihailescu, Dr. Mihai Ionica
10.20-10.40	OMN100-24 , Comparative Study of SAR Interferometric Phase Filtering Algorithms Mr. Cosmin Danisor, Politehnica University of Bucharest	OMN100-120 , Optoelectronic method for determining a mixture of organophosphorus compounds involved in environmental contamination, Gina Caragea, Medical-Military Scientific Research Center (Romania)
10.40-11.00	OMN100-40 , Measuring consumption of parallax barrier 3D displays found in modern smartphones, Mr. Valentin Gabriel Voiculescu, Politehnica University of Bucharest	OMN100-66 , Optoelectronic method for determining platinum quantity from biological samples with graphite furnace atomic absorption spectroscopy, Mrs. Alexandra Andrada Bojescu (Romania)
11.00-11.20	OMN100-36 , On the Performance of the Variable-Regularized Recursive Least-Squares Algorithms, Ms. Camelia Elisei-Iliescu, Politehnica University of Bucharest	OMN100-65 , Optoelectronic method for determining the amount of platinum from hair, urine and blood samples by atomic absorption spectrometer with graphite furnace at patients with chemotherapy, Alexandra Andrada Bojescu (Romania)

11.30 -13.30 [Posters Session 3](#)

14.00 -15.00 Lunch

15.00-17.00 [Posters Session 4](#)

17.00 Cultural Program

19.30 Conference Dinner and Paper Awards

Friday, August 24

12.00-14.00

[Posters Session 1](#)

CHAIRS: Nicolae A. Enaki, Dorin Dadarlat

PS1-1, OMN100-3, Controlling of gold nanoparticles by the vertical spin of an evanescent wave in biomedical applications, O. Angelsky, C. Zenkova, D. I. Ivanskyi, Yuriy Fedkovych Chernivtsi National Univ (Ukraine)

PS1-2, OMN100-38, Absorption of light by a monolayer graphene-water complex, O. Angelsky, V. Brus, V. Ivashko, A. Maksimyak, P. Maksimyak, Yuriy Fedkovych Chernivtsi National Univ. (Ukraine)

PS1-3, OMN100-41, Manipulation of micro-bubbles in water by CW laser, P. P. Maksymyak, Yuriy Fedkovych Chernivtsi National Univ (Ukraine); A. Y. Bekshaev, Odessa I.I. Mechnikov, National Univ (Ukraine); O. V. Angelsky, A. P. Maksymyak, Yuriy Fedkovych Chernivtsi National Univ (Ukraine)

PS1-4, OMN100-44, Correlation structure of Stokes-parametric images of biological tissue, O. V. Dubolazov, A. Ushenko, Y. Ushenko, Y. Tomka, Yuriy Fedkovych Chernivtsi National Univ (Ukraine)

PS1-5, OMN100-45, Diffusive laser tomography of multilateral biological tissue, O. V. Dubolazov, A. Ushenko, Y. Ushenko, Y. Tomka, Yuriy Fedkovych Chernivtsi National Univ (Ukraine)

PS1-6 OMN100-46, Polarization reconstruction of polycrystalline structure of biological liquid films, O. V. Dubolazov, A. Ushenko, Y. Ushenko, M. Sakhnovskiy, Yuriy Fedkovych Chernivtsi National Univ (Ukraine)

PS1-7, OMN100-47, Holographic reconstruction of optical anisotropy of blood films and diagnostics of breast cancer, O. V. Dubolazov, A. Ushenko, Y. Ushenko, M. Sakhnovskiy, Yuriy Fedkovych Chernivtsi National Univ (Ukraine)

PS1-8, OMN100-48, Statistical and cross-correlation structure of Jones-matrix images of polycrystalline films of biological fluids, O. V. Dubolazov, A. Ushenko, Y. Ushenko, M. Gorsky, Yuriy Fedkovych Chernivtsi National Univ (Ukraine)

PS1-9, OMN100-49, Jones matrix differential diagnostics of weak changes of biological fluids optical anisotropy, O. V. Dubolazov, A. Ushenko, Y. Ushenko, M. Gorsky, Yuriy Fedkovych Chernivtsi National Univ (Ukraine)

PS1-10, OMN100-50, Muller-matrix images of optical anisotropy parameters fluctuations of biological tissues diffusion layers, O. V. Dubolazov, A. Ushenko, Y. Ushenko, V. Zhytaryuk, Yuriy Fedkovych Chernivtsi National Univ (Ukraine)

PS1-11, OMN100-54, Polarization-interference cartography of polycrystalline films of biological liquids in differentiation of weakly changes in optical Anisotropy, O. V. Dubolazov, A. Ushenko, Y. Ushenko, V. Zhytaryuk, Yuriy Fedkovych Chernivtsi National Univ (Ukraine)

CHAIRS: Tatiana Tozar, Eugen Scarlat

PS1-12, OMN100-58, Spectropolarimetry diagnostics of blood and punctate Douglas deepening in patients with ovarian tumors, S. B. Yermolenko, Yuriy Fedkovych Chernivtsi National Univ (Ukraine); O. Peresunko, Bukovinian State Medical University, Chernivtsi (Ukraine); K. Rudan, Bukovinian State Medical University (Ukraine); I. Gruia, University of Bucharest (Romania)

PS1-13, OMN100-59, Infrared spectroscopy criteria for diagnostics selection of patients with ovarian cancer for further molecular genetic studies, S. B. Yermolenko, Yuriy Fedkovych Chernivtsi National Univ (Ukraine); I. Gruia, University of Bucharest (Romania); O. Peresunko, Bukovinian State Medical University, Chernivtsi (Ukraine)

PS1-14, OMN100-60, Polarization image processing in the destruction diagnostics of chordae tendinea of atrio-ventricular heart valves, S. B. Yermolenko, Yuriy Fedkovych Chernivtsi National Univ (Ukraine); M. Gruia, Institutul Oncologic "Al. Trestioreanu", Bucharest (Romania); N. Penteleichuk, Bukovinian State Medical University, Chernivtsi (Ukraine); O. Tsyhykalo, Y. Malyk, T. Semeniuk, Bukovinian State Medical University (Ukraine)

PS1-15, OMN100-61, Polarimetry diagnostics of anisotropy structure of heart valves tendinous cords, S. B. Yermolenko, National Univ (Ukraine); C. Gavrila, Technical University of Civil Engineering Bucharest (Romania); N. Penteleichuk, Bukovinian State Medical University, Chernivtsi (Ukraine); O. Tsyhykalo, Y. Malyk, T. Semeniuk, Bukovinian State Medical University (Ukraine)

PS1-16, OMN100-62, Polarization structural properties of the images of chordae tendinea of the mitral and tricuspid heart valves, S. B. Yermolenko, National Univ (Ukraine); I. Gruia, University of Bucharest (Romania); N. Penteleichuk, Bukovinian State Medical University, Chernivtsi (Ukraine); O. Tsyhykalo, Y. Malyk, T. Semeniuk, K. Chala, Bukovinian State Medical University (Ukraine)

PS1-17, OMN100-68, Title: Use of three-dimensional modeling for reconstruction of the phase distribution of a speckle field, P. A. Riabiy, P. O. Angelsky, Yuriy Fedkovych Chernivtsi National Univ (Ukraine)

PS1-19, OMN100-127, Electric current conduction of percolation channels in nanocomposites with a hopping charge transfer mechanism, P. Rogalski, P. Żukowski, Lublin University of Technology (Poland)

PS1-20, OMN100-128, Comparison of DC conductivity of synthetic ester and composite cellulose-synthetic ester-water nanoparticles, K. Kierczyński, Lublin University of Technology (Poland); M. Zenker, West Pomeranian University of Technology (Poland)

PS1-21, OMN-100-130, The effect of reduced pressure on the bubble effect in the composite cellulose-insulation oil-water nanodrops, M. Opielak, P. Rogalski, Lublin University of Technology (Poland)

PS1-22, OMN100-142, Influence of bias potential on the tribological behavior and physical-mechanical properties of TIAISiY-based nanostructured coatings, V. Bondariev, Lublin University of Technology (Poland); V. Beresnev, Sumy State University (Ukraine); S. Litovchenko, Kharkov Natl Univ, Sq Peremogy 4, UA-61022 Kharkov, Ukraine (Ukraine); S. Borba-Pogrebnyak, K. Smyrnova, A. Pogrebnyak, Sumy State University (Ukraine)

PS1-23, OMN100-148, Quantum phenomena in metallic phase nanoparticles, P. Żukowski, V. Bondariev, Lublin University of Technology (Poland)

Friday, August 24

15.00-18.50

Posters Session 2

CHAIRS: Cristea Ionica, Sandu Titus

PS2-1, OMN100-19, Metastable bound states and spin structures of the two-dimensional bimagnetoexcitons, S. Moskalenko, P. Khadzi, Academy of Sciences (Moldova); I. Podlesny, E. Dumanov, Institute of Applied Physics (Moldova); M. Liberman, Nordic Institute for Theoretical Physics (NORDITA) (Sweden); I. Zubac, Academy of Sciences (Moldova)

PS2-2, OMN100-71, Micro-Raman spectra of amorphous GexAsxSe1-2x chalcogenide glasses, O. V. Iaseniuc, M. Iovu, Institute of Applied Physics (Moldova); R. Mesterca, A. Jderu, Center for Surface Science and Nanotechnology, UPB (Romania); A. Ghiulnare, M. Enachescu Center for Surface Science and Nanotechnology, UPB, Bucharest, Romania (Romania);

PS2-3, OMN100-124, Transmission spectra modeling for nanomultilayer chalcogenide thin films, A. Meshalkin, Institute of Applied Physics (Moldova); O. Paiuk, V. Lashkaryov Institute of Semiconductor Physics NAS of Ukraine (Ukraine); E. Achimova, Institute of Applied Physics (Moldova); A. Stronski, V. Lashkaryov Institute of Semiconductor Physics NAS of Ukraine (Ukraine)

PS2-4, OMN100-30, Particularities of mass and convective thermal transfer through polysynthetic porous media in flat micro heat-pipes, I. Mihai, S. Sprinceana, C. Suciu, Stefan cel Mare Univ of Suceava (Romania)

PS2-5, OMN100-31, Heat transfer enhancement in acetone filled flat micro heat pipes for CMOS sensor cooling, I. Mihai, S. Sprinceana, C. Suciu, Stefan cel Mare Univ of Suceava (Romania)

PS2-6, OMN100-32, Heat transfer modeling of a flat plate with internal heat source via Laplace transform, S. Sprinceana, A. Tolos (Furnica), Stefan cel Mare Univ of Suceava (Romania)

PS2-7, OMN100-33, Study of the equivalent thermal conductivity in the evaporation area of a flat micro heat pipe, C. Suciu, A. Tolos (Furnica), Stefan cel Mare Univ of Suceava (Romania)

PS2-8, OMN100-77, Study of the combustion process in a rotary engine with constant combustion chamber, I. Manolache-Rusu, I. Mihai, Stefan cel Mare Univ. of Suceava (Romania)

PS2-9, OMN100-106, Combustion modeling of volatile compounds resulted from wood biomass pyrolysis using the CFD technique, A. Mursa, I. Mihai, Stefan cel Mare University of Suceava (Romania)

PS2-10, OMN100-109, Thermal potential simulation of wood biomass used in energy generation, A. Mursa, I. MIHAI, Stefan cel Mare University of Suceava (Romania)

PS2-11, OMN100-56, The bioactivity assessment of silver-doped phosphocalcic glasses, D. Avram, D. Ungureanu, N. Angelescu, I. Ioniță, C. Popescu, Valahia University Targoviste (Romania)

PS2-12, OMN100-144, Complex nanoconjugate materials obtained from eco-friendly gold and silver nanoparticles and zinc phthalocyanine derivatives, A. Sorescu, A. Nuta, R. Ion, S. Nitu, N. Radu, INCDCP-ICECHIM (Romania); S. Teodorescu, Valahia University, (Romania)

CHAIRS: Nicolae Militaru, Viorel Ionescu

PS2-13, OMN100-115, Nuclear methods for the non-destructive analysis of cultural heritage objects, : I. Fierascu, R. Fierascu, ICECHIM (Romania); A. Ortan, - ICECHIM (Romania) and University of Agronomic Sciences and Veterinary Medicine of Bucharest, D. Mirea, M. Ilie, "Horia Hulubei" National Institute for Physics and Nuclear Engineering (Romania)

PS2-14, OMN100-116, Metallic nanoparticles obtained through phytosynthesis: new advanced materials of the XXIst century, R. Fierascu, I. Fierascu, I. Chican, D. Varasteanu, The National Institute for Research & Development in Chemistry and Petrochemistry - ICECHIM (Romania); L. Soare, University of Pitesti (Romania)

PS2-15, OMN100-138, Big data analytics with graphical techniques applied to environmental control, M. Boca, M. Kadar, 1 Decembrie 1918 University of Alba Iulia (Romania)

PS2-16, OMN100-173, Non-destructive analysis of manufacturing defects on building materials, Prof. Adrian Tulbure "1 Decembrie 1918" University of Alba Iulia

PS2-17, OMN100-1, Spatial carbon molecules fullerene typ identified by thermal gravimetric analysis (TGA) of graphite films deposited on metal. L. Marin, National Institute for Research and Development in Chemistry and Petrochemistry (Romania); P. G. Topala D.D.S., State University Balti Republic of Moldavia (Moldova)

PS2-18, OMN100-28, Embedding of yttrium based phosphors into polymeric matrix, V. Țucureanu, A. Matei, M. Popescu, A. Avram, B. Tincu, M. Avram, IMT Bucharest (Romania); D. Munteanu, Transilvania University of Brasov, Department of Materials Science (Romania)

PS2-19, OMN100-34, Piezoelectric materials based on doped ZnO nanowires, M. Nicolescu, M. Anastasescu, P. Osiceanu, J. Calderon Moreno, C. Vladut, S. Mihaiu, S. Preda, E. Tenea, M. Zaharescu, M. Gartner, Institute of Physical Chemistry "Ilie Murgulescu" (Romania)

PS2-20, OMN100-42, Study regarding transfer rate for 802.11 Wi-Fi communications with Bluetooth interference and overlapped channels, George Luca, Protection and Guard Service (Romania)

PS2-21, OMN100-51, Interaction of oxide nanoparticles with surface-active agents, A. Matei, V. Tucureanu, M. Popescu, C. Romanitan, I. Mihalache, B. Tincu, M. Avram, IMT-Bucharest (Romania)

PS2-22, OMN100-52, Spectroscopic investigation of CVD grapheme, Bianca Tincu, IMT Bucharest, and University Politehnica of Bucharest, (Romania); A. Avram, A. Marioara, V. Tucureanu, A. Matei, C. Marculescu, T. Burinaru, F. Comanescu, I. Mihalache, M. Popescu, IMT Bucharest (Romania); I. Demetrescu, University Politehnica of Bucharest, (Romania)

PS2-23, OMN100-53, Analysis of variance of the thermal comfort in vehicles, C. Gavrilă, Technical Univ of Civil Engineering Bucharest (Romania)

PS2-24, OMN100-105, Correlation analysis of the polarization degree in H₂-Ne gas mixture, C. Gavrilă, Technical Univ of Civil Engineering Bucharest (Romania); I. Gruia, University of Bucharest (Romania)

PS2-25, OMN100-55, Development and validation of a method for 11-nor-9-carboxi-delta9-tetrahydrocannabinol quantification using gas chromatography coupled to triple quadrupole mass spectrometry, A. Pop, G. Danila, M. Zorio, Romanian Doping Control Laboratory (Romania); V. Pop, Institutul National de Cercetare Dezvoltare Medico-Militara "Cantacuzino" (Romania)

CHAIRS: Carmen Voicu, Paul Schiopu

PS2-26, OMN100-86, Packing optical vortices for spatial multiplexing, E. Scarlat, M. Mihailescu, University Politehnica Bucharest (Romania); I. Paun, National Inst. for Laser, Plasma and Radiation Physics, CETAL Group Magurele (Romania); N. Mihale, M. Popa, University Politehnica Bucharest (Romania)

PS2-27, OMN100-87, Optical biomarkers for detection of metastatic potential in malignant cells and tissues, V. L. Calin, E. Kovacs M.D, T. Savopol M.D, M. G. Moiescu M.D "Carol Davila" University of Medicine and Pharmacy (Romania); E. I. Scarlat, M. Mihailescu, University Politehnica Bucharest (Romania); A. V. Baluta, University Politehnica Bucharest (Romania);

PS2-28, OMN100-101, Visual effects based on sub-micrometric displacements, M. Mihailescu, A. Craciun, Univ Politehnica of Bucharest (Romania); R. Gabor, National Institute for Research in Chemistry, Bucharest, Romania (Romania); C. Nicolae, National Institute for Research in Chemistry (Romania); M. Pelteacu, S.C. Optoelectronica 2001 S.A., Magurele, Romania (Romania); B. Comanescu, G. Bostan, S.C. Optoelectronica 2001 S.A. (Romania)

PS2-29, OMN100-102, Phase map and hyperspectral imaging of blood cells interacting with TiO₂ nanoparticles, M. Mihailescu, E. I. Scarlat, I. Paun, Univ Politehnica of Bucharest (Romania); R. Gabor, V. Raditoiu, The National Institute for Research & Development in Chemistry and Petrochemistry, Bucharest, Romania (Romania)

PS2-30, OMN100-118, Uplink massive MU-MIMO OFDM-based system with LDPC coding-simulation and performances, Madalina Berceanu, C. Voicu, S. Halunga, University Politehnica of Bucharest (Romania)

PS2-31, OMN100-122, Video signal recovery from the laser printer LCD display, A. BOITAN, R. Bărtușică, The Special Telecommunications Service, Bucharest (Romania); S. Halunga, University Politehnica of Bucharest; Electronics, (Romania); V. Bîndar, The Special Telecommunications Service, Bucharest (Romania)

PS2-32, OMN100-132, Advanced technologies for capitalization of agro-food industry wastes, S. Spinu, A. Ortan, USAMVB (Romania); I. MORARU, SC Laboratoarele Medica SA (Romania); D. Ionescu, USAMVB (Romania)

PS2-33 OMN100-134, THz-TDS application on detecting organic substances, V. Damian, M. Bojan, I. Iordache, INFLPR (Romania); P. Florea, KOYO Romania SA (Romania)

PS2-34, OMN100-157, Study on available photovoltaic energy inside office building rooms, Drumea, M. Pantazica, Politehnica University of Bucharest (Romania)

PS2-35, OMN100-158, Datalogging embedded module for monitoring current and voltage in solar cells, supercapacitors and rechargeable batteries, A. Drumea, Politehnica University of Bucharest (Romania)

CHAIRS: Simona Halunga, Octavian Fratu

PS2-37, OMN100-136, Methods of ensuring the quality of intelligent optical fiber telecommunication networks, I. A. Bacis Vasile, I. I. Popescu Jr., R. C. Negroiu (Pavel) Jr., UPB (Romania)

PS2-38, OMN100-139, LED chaotic circuit targeting secret communication, O. Datcu, R. Dobre, M. Stanciu, University „Politehnica” of Bucharest (Romania)

PS2-39, OMN100-149, Investigation of power LEDs response time in Visible Light Communications, Alina Marcu, R. Dobre, M. Vlădescu, "Politehnica" University of Bucharest (Romania)

PS2-40, OMN100-161, Investigations upon the possible phase noise introduced by optocouplers in RFID systems, D. Vuza, Institute of Mathematics of the Romanian Academy (Romania); M. Vladescu, Univ Politehnica of Bucharest (Romania); R. Frosch, H. Koeberl, Freaquent Frosch Electronics GmbH (Austria)

PS2-41, OMN100-164, Studies of LED lighting structures on flexible substrates, C. V. Ionescu, N. Codreanu, Polytechnical Univ of Bucharest (Romania)

PS2-42, OMN100-168, Improving a LoRaWAN-based ambient assisting living system with fog computing, A. Dragulinescu, S. Halunga, O. Fratu, A. Dragulinescu, UPB (Romania)

PS2-43, OMN100-170, Mechanical Properties of LEDs Bonds Realized with Conductive Adhesives Paste, M. Branzei, M. Vladescu, I. Plotog, Univ Politehnica of Bucharest (Romania); G. Varzaru, Syswin Solutions (Romania); B. Mihailescu, Univ Politehnica of Bucharest (Romania)

PS2-44, OMN100-12, Integrated decision making platform, M. Manolache, University Politehnica of Bucharest - The Faculty of Automatic Control and Computer Science (Romania)

PS2-45, OMN100-23, Improvement of setup calibration for radar cross section measurements, I.-V. Mihai, University Politehnica of Bucharest (Romania); L. Anchidin, Constanta Maritime University (Romania); R.Tamas, Univ. Maritima din Constanta (Romania); A. Sharaiha, Institut d'Electronique et Télécommunications de Rennes (France)

PS2-46, OMN100-25, Thermal-hydraulic performance modelling of a sine-shaped wavy channel for electronics cooling applications, V. Ionescu, Ovidius Univ. of Constanta (Romania); A. Neagu, Ovidius University of Constanta (Romania)

PS2-47, OMN100-26, Experimental investigation of cathode back-pressure effect on voltage oscillations in a PEM fuel cell system, A. Andronie, University of Bucharest, (Romania); I. Stamatina, University of Bucharest, Romania); V. Girleanu, University of Bucharest, Faculty of Physics, 3Nano - SAE Research Center, Bucharest, Romania (Romania); V. Ionescu, Ovidius university of Constanta (Romania)

Saturday, August 25

11.30-13.30

Posters Session 3

CHAIRS: Mona Mihailescu, Dragos Vizireanu

PS3-1, OMN100-17, Methods for increasing the sensitivity and signal-to-noise ratio in mass spectrometry for the determination of cocaine and ethylbenzoylcegonine in urine, R. Populeanu, Univ. of Politehnica (Romania)

PS3-2, OMN100-64, Optoelectronic method for improving the signal-to-noise ratio of the mass spectrometer for determining methadone and its metabolite, R. Populeanu, Univ. of Politehnica (Romania)

PS3-3, OMN100-125, Optoelectronic method for the determination of synthetic cannabinoids and their metabolites, Streche, Monica Ionica, Univ. Poltehnica of Bucharest (Romania)

PS3-4, OMN100-79, Optoelectronic methods for screening of Pralmorelin and its metabolite in urine samples, J. Colev, B. Berghes, M. Radu, M. Ionica, G. Bican, Doping Control Laboratory (Romania)

PS3-5, OMN100-81, Optoelectronic method for identification of Meldonium in urine samples, B. Berghes, J. Colev, M. Radu, M. Ionica, G. Bican, Doping Control Laboratory (Romania)

PS3-6, OMN100-82, Optoelectronic method for the screening and confirmation of hydroxyethyl starch in urine samples, J. Colev, B. Berghes, M. Ionica, G. Bican, Doping Control Laboratory (Romania)

PS3-7, OMN100-100, Analysis and optimization of an inductive wireless high power transfer system, F. Rosu, A. Badescu, B. Rusu, University Politehnica of Bucharest (Romania)

PS3-8, OMN100-113, A parametric study on the frequency-domain response of multi-resonant frequency selective surfaces with loop-type unit cells, A. Androne, Doctoral School of Electronics, Telecommunications, and Information Technology, University Politehnica of Bucharest, Romania (Romania); R. Tamas, Department of Electronics and Telecommunications, Constanta Maritime University, Romania (Romania)

CHAIRS: Constantin Hutanu, Emil Petrescu

PS3-11, OMN100-117, Nanocomposite magnetic structures for static magnetic field stimulation of osteogenesis, Dr. Irina Alexandra Paun, INFLPR, CETAL

PS3-12, OMN100-140, Determination of refractive index profile of a single-mode optical fiber using digital holographic measurements, Giorgiana C. Vasile, M. Mihailescu, University "Politehnica" of Bucharest (Romania)

PS3-13, OMN100-141, Enhanced carrier aggregation to support 5G use cases, C. Zamfirescu, B. Burchila, O. Bradeanu, University Politehnica of Bucharest, (Romania)

PS3-14, OMN100-143, A practical approach to microcontroller performance evaluation, A. Buturuga, R. Constantinescu, D. Stoichescu, ETTI, University Politehnica of Bucharest (Romania)

PS3-15, OMN100-152, On demand secure isolation using security models for different system management platforms, G. Suciu, C. Istrate, A. Petrache, BEIA Consult International (Romania)

PS3-16, OMN100-153, Assessment of the impact of volatile organic compounds (VOC) on human health in sensitive areas, G. Suciu, A. Pasat, C. M. Balaceanu, M. Balanescu, C. Nadrag, BEIA Consult International (Romania)

PS3-17, OMN100-154, LoRa architecture for air quality monitoring, G. Suciu, M. Sachian, A. Pasat, BEIA Consult International (Romania)

PS3-18, OMN100-155, Quantification of biomarkers via fluorescence of CdTe quantum dots in point-of-care type immunochromatographic testing, M. Vladescu, V. Feies, P. Schiopu, A. Craciun, N. Grosu, Univ Politehnica of Bucharest (Romania); M. Savin, University of Bucharest C. Mihailescu, D. Stan, DDS Diagnostic (Romania)

PS3-19, OMN100-183, Rapid test immune-cromatographic with detection in fluorescence of cardiac troponin T, M. Vladescu, Univ Politehnica of Bucharest (Romania)

Saturday, August 25

15.00-17.00

Posters Session 4

CHAIRS: Razvan Tamas, Alin Danisor

PS4-1, OMN100-167, Evaluation of BLDCs functionality in automotive electronic systems, M. CHITU, Dep. BLDC (Romania) and Infineon Technologies Romania (Romania); A. I. Vasile Sr., University "Politehnica" of Bucharest, Romania, Centre of Technological Electronics and UPB-CETTI (Romania); R. Negroiu, University "Politehnica" of Bucharest (Romania)

PS4-2, OMN100-179, Bi-based nanostructures produced by laser ablation and their functional properties tailored by complex ensembles of nanoscale phase/nanodomain fluctuations, Nicu Scarisoreanu, INFLPR (Romania)

PS4-3, OMN100-186, The influence of graphene nanoplatelets on the Freedericksz transition threshold in nematic liquid crystals, C. Cirtoaje, E. Petrescu, Politehnica Univ. of Bucharest (Romania)

PS4-4, OMN100-165, Microwave compact bandpass filters in multilayer technology, Nicolae Militaru, University POLITEHNICA of Bucharest (Romania)

PS4-5, OMN100-7, Some methods of establishing a new optimal shape of the shell for an energy concentrator system, M. Panaitescu, F. L. Panaitescu, L. Stan, I. Omocea, Constanta Maritime Univ (Romania), L. Martes, Romanian Seafarers Center (Romania)

PS4-6, OMN100-8, The need of the establishment of a marine renewables network within an academic cooperation, F. Memet, I. Anton, Constanta Maritime University (Romania)

PS4-7, OMN100-10, New solutions to protect the Romanian coastline, M. PANAITESCU, F. PANAITESCU, I. ANTON, Constanta Maritime Univ (Romania), C. Anton, Dunarea de jos University (Romania); M. Turof, Constanta Maritime Univ (Romania)

PS4-8, OMN100-11, Experimental approach for cognitive software-defined Doppler radar, M. Paun, L. Anchidin, A. Tasu, A. Savu, R. Tamas, A. Danisor, Constanta Maritime Univ (Romania)

PS4-9, OMN100-13, Mathematical models for the common features of quantum scale and normal scale phenomena, Constantin Nutu, Constanta Maritime University (Romania)

PS4-10, OMN100-14, Consequences of non emptiness of the space and of the non existence of the space vacuum Constantin Nutu, Constanta Maritime University (Romania)

CHAIRS: Violeta-Vali Ciucur, Emil Oanta

PS4-11, OMN100-18, Roll motions analysis to improve ship responses in adverse weather conditions, C. Andrei, Nicoleta Acomi, C. Ancuta, Constanta Maritime University (Romania)

PS4-12, OMN100-89, A low cost radio platform for search and rescue scenarios, A. Tasu, L. Anchidin, R. Tamas, M. Paun, A. Danisor, Constanta Maritime Univ (Romania); T. Petrescu, University Politehnica of Bucharest (Romania)

PS4-13, OMN100-90, A low cost radio platform for path loss model calibration, A. Tasu, L. Anchidin, R. Tamas, M. Paun, A. Savu, Constanta Maritime Univ (Romania), T. Petrescu, University Politehnica of Bucharest (Romania)

PS4-14, OMN100-93, Multi-objective particle swarm (PSO) analysis in collaborative working environments, Simona. Dinu, Constanta Maritime Univ (Romania)

PS4-15, OMN100-96, Optimization by CFD of the marine propulsion system Liviu D. Stan, Constanta Maritime Univ (Romania)

PS4-16, OMN100-97, Influence of cellulose in the fuel mixtures for engines, Liviu D. Stan, Constanta Maritime Univ (Romania)

PS4-17, OMN100-107, A new insight on the distance averaging method: linear scanning versus matrix scanning, L. Anchidin, Constanta Maritime University (Romania); I.-V. Ilie, Univ Politehnica of Bucharest (Romania); S. Bucuci, Institut d'Electronique et Télécommunications de Rennes, France (France); R. Tamas, G. Caruntu, Constanta Maritime University (Romania)

PS4-18, OMN100-111, Impact of the angle of arrival on the response of a multi-resonant frequency selective surface, A. Androne, R. Tamas, Department of Electronics and Telecommunications, Constanta Maritime University, Romania (Romania)

PS4-19, OMN100-112, Underwater noise analysis for optimum signal detection, A. Dumitrascu, A. Radulescu, A. Danisor, A. Micu, L. Anchidin, M. Paun, S. Tasu, R. D. Tamas, Constanta Maritime Univ (Romania)

PS4-20, OMN100-145, Increasing comfort in a building using thermography, A. Preda, Constanta Maritime University (Romania); R. Popescu, Technical University of Civil Engineering of Bucharest, Faculty of Building Services (Romania); L. Popescu, Technical University of Civil Engineering of Bucharest (Romania)

PS4-21, OMN100-147, Increasing the energy efficiency of existing buildings, A. Preda, Faculty of Naval Electro-Mechanics, Constanta Maritime University (Romania); R. Popescu, Technical University of Civil Engineering of Bucharest, (Romania); L. Popescu, Technical University of Civil Engineering of Bucharest (Romania)

PS4-22, OMN100-85, Calculation of propulsion power required for steering and displacement of the ship equipped with an azimuthal steering and propulsion system, Violeta-Vali M. Ciucur, Constanta Maritime University