# **CONFERENCE PROGRAM**

	Thursday, August 25				
00 00 10 20	Registration, Accommodation				
08.00-10.30	Distribution of the conference materials	Hall			
10.30-10.45	Opening Session				
10.45-14.05	Plenary Session	1			
14.15	Photo Remember ATOM-N 2016				
14.30-15.30	Lunch				
4 < 00 40 40	Oral Session 1: Advanced materials and new technologies	Room A			
16.00-18.40 17.20-18.40					
16.00-18.40	Oral Session 2 : Sensors, microsystems, and instruments	Room B			
19.00	Welcome cocktail				
	Friday, August 26	•			
08.20-08.40	Agilrom Scientific Presentation				
08.40-12.40	Oral Session 3.1: Modeling, design, and simulation	A			
08.40-10.20	M Oral Session 5: Medical Optoelectronics	В			
10.40-12.40	Oral Session 3.1: Modeling, design, and simulation				
	Oral Session 3.2: Modeling, design, and simulation	В			
	Oral Session 6: Micro/nanophotonics and micro/nanotechnologies	A			
12.50-13.40	Oral Session 7 Diffractive, micro optics, and optical signal processing				
14.00-15.00	Lunch				
15.00 -19.00	Posters Session 1				
19.00	Dinner				
	Saturday, August 27				
09.00 - 13.00	Posters Session 2				
13.00-14.00	Lunch				
14.00-16.00	Posters Session 3				
16.30-19.30	Cultural Program				
19.30	Conference Dinner Paper Awards				
	Sunday, August 28				
09.30 - 11.00	Round Table				
11.30	Closing Session				
<b>.</b>					

# THURSDAY,25 AUGUST 25 2016

#### 08.00-14.30

### 08.00-10.30 - Registration, Distribution of the conference materials

**10.30-10.45- Opening Session** 

**10.45-14.15- Plenary Session** 

Chairs: Cornel Panait, Marian Vladescu, Razvan Tamas

**10.45-**Paper No.: OMN100-136

Quantitative phase imaging for basic and clinical biomedical applications (invited), Gabriel Popescu,

**11.10-**Paper No.: OMN100-42

Interferometric correlator for acoustic radiation and underlying structural vibration (invited), Adela Apostol

11.45-Paper No.: OMN100-67

Plasma and particles (invited), Petr Spatenka

12.10-Paper No.: OMN100-158,

Electromagnetic & Acoustic Bimodality for the Detection and Localization of Electrical Arc Faults (invited), Cornel Ioana

12.35- Paper No.: OMN100-85

The use of 2D Hilbert transform for phase retrieval of speckle fields, (invited), Claudia Y Zenkova

**12.55-** Paper No.: OMN100-161

On Wafer High Temperature Characterization System, (invited), Laurentiu Teodorescu

**13.20-** Paper No.: OMN100-31

Study regarding the spline interpolation accuracy of the experimentally acquired data (invited), Emil M. Oanta

**13.45** - Paper No.: OMN100-155

Enhanced automated platform for 2D characterization of RFID communications (invited), Dan Tudor Vuza

## 14.15 Photo Remember ATOM-N 2016

# 14.30 Lunch

# THURSDAY, 25 AUGUST 2016

Session	Oral Session 1 Advanced materials and new technologies	Session	Oral Session 2 Sensors, microsystems, and instruments
Chairs	Dorin Dadarlat, Aurica Farcas	Chairs	Octavian Fratu, Cristian Viespe
16.00-	Paper No.: OMN100-9, <b>Optothermal characterization of</b>	16.00-	Paper No.: OMN100-5, Surface Acoustic Wave Sensors based on
16.20	liquid thermoelectrics, Dorin Dadarlat, National R&D Institute	16.20	Laser Deposited Nanostructure Thin Films, Cristian Viespe,
	for Isotopic and Molecular Technologies, Cluj, Romania		National Institute of Laser, Plasma and Radiation, Romania
16.20-	Paper No.: OMN100-18, <b>Terpolymer polyrotaxanes: a</b>	16.20-	Paper No.: OMN100-41, Design of multi-band microstrip polygonal
16.40	promising supramolecular system as electron-transporting	16.40	contour filter for microwaves,
	materials for optoelectronics, Aurica Farcas "Petru Poni"		Octavian Fratu, Politehnica University of Bucharest,Romania
	Institute of Macromolecular Chemistry, Iasi, Romania		
16.40-	Paper No.: OMN100-21, Synthesis and photophysics of	16.40-	Paper No.: OMN100-82, <b>Persistent scatterers detection on synthetic</b>
17.00	conjugated azomethine polyrotaxanes, Ana-Maria Resmerita,	17.00	aperture radar images acquired by Sentinel-1 satellite, Cosmin
	"Petru Poni" Institute of Macromolecular Chemistry, Iasi,		Danisor, Politehnica University of Bucharest, Romania
17.00-	Paper No.: OMN100-45, Synthesis of reduced graphene oxide/	17.00-	Paper No.: OMN100-91, Sensors system design for discrimination
17.20	poly(aniline-N-propanesulfonic) acid composites and their	17.20	between humans and animals,
	applications for electrochemical supercapacitors, Ana-Maria		Octavian Fratu, Politehnica University of Bucharest, Romania
	Solonaru, "Petru Poni'' Iasi		
Session	Oral Session 4 Plasma methods and diagnostic used for	Session	Oral Session 2
	surface treatments		Sensors, microsystems, and instruments
Chairs	Bogdan E Hnatiuc, Petr Spatenka	Chairs	Paul Schiopu, Adrian Tulbure
17.20-	Paper No.: OMN100-47, <b>Biofouling development on plasma</b>	17.20-	Paper No.: OMN100-101, Cyber Physical Systems based on Cloud
17.40	treated samples versus layers coated samples	17.40	Computing and Internet of Things for energy efficiency, Octavian
	Mr. Bogdan E Hnatiuc, Constanta Maritime University		Fratu, Politehnica University of Bucharest, Romania
17.40-	Paper No.: OMN100-99, <b>Evolution of the construction and</b>	17.40-	Paper No.: OMN100-126, Metal nanoparticles (other than gold or
18.00	performances in accordance to the applications of non-	18.00	silver) prepared using plant extracts for medical applications,
	thermal plasma reactors, Bogdan E Hnatiuc Constanta		Racz Levente Zsolt, Babes-Bolyai University, Cluj, Romania
18.00-	Paper No.: OMN100-106, Effects of GlidArc plasma	18.00-	Paper No.: OMN100-135, Data Mining Methods for Parameters
18.20	treatment on metallic surface, Eugen Hnatiuc, "Gheorghe	18.20	Forecasting of a Small Solar Plant,
	Asachi" Technical University of Iasi		Adrian Tulbure, "1 Decembrie 1918" University
18.20-	Paper No.: OMN10010-164 Long thermal interactions of	18.20-	Paper No.: OMN100-146, Electrical and optical evaluations aspects
18.40	PAW with normal tooth structure and different dental	18.40	of public lighting systems, Adrian Tulbure, "1 Decembrie 1918"
	biomaterials, Eugen Hnatiuc "Gheorghe Asachi" Iasi		University of Alba Iulia

19.00 Welcome coktail

# FRIDAY, 26 AUGUST 2016

# 08.20-08.40 Agilrom Scientific Presentation, Alin Mogos

Session	Oral Session 3.1 Modeling, design, and simulation	Session	Oral Session 5.Medical Optoelectronics
Chairs	Nicolae Enaki, Alin M Danisor	Chairs	Eugen Scarlat, Mihaela Moisescu
08.40-	Paper No.: OMN100-57, <b>The analysis of MAI in Large scale</b>	08.40-	Paper No.: OMN100-93, <b>Optical properties of sclerosing foams</b>
09.00	MIMO-CDMA system, Madalina Berceanu, Politehnica	09.00	in view of their use in sclerotherapy, Viorel Nastasa, National
	University of Bucharest,		Institute of Laser, Plasma and Radiation,Romania
09.00-	Paper No.: OMN100-58, Noise analysis in power distribution	09.00-	Paper No.: OMN100-116, Holographic phase imaging as a tool
09-20	systems, Alin M. Danisor, Constanta Maritime University	09-20	for characterization of cells exposed to electric fields, Mihaela
			Moisescu, Carol Davila University of Medicine and Pharmacy,
			Bucharest
09.20-	Paper No.: OMN100-60, <b>Time-frequency analysis of transient</b>	09.20-	Paper No.: OMN100-61, <b>Digital holographic microscopy for</b>
09.40	signals in power distribution systems Alin M. Danisor,	09.40	quantitative characterization of cervical cells.
	Constanta Maritime University		Eugen Scarlat, Politehnica University of Bucharest
09.40	Paper No.: OMN100-26, Cooperative Entangled Effects	09.40	Paper No.: OMN100-112, Laser exposed medicine impregnated
10.00	Between the Cavity Mode Components of Raman Process,	10.00	target surfaces subjected to simulated hypergravity condition,
	Nicolae Enaki, Academy of Sciences of Moldova		in view of space medicine applications, Agota Simon, National
			Institute for Laser, Plasma and Radiation Physics, Romania
10.00-	Paper No.: OMN100-128, Study of improving artificial	10.00-	Paper No.: OMN100-129, <b>Method for the determination of</b>
10.20	lighting in industrial environments, Gheorghe Marc, "1	10.20	cobalt from biological products with graphite furnance atomic
	Decembrie 1918" University of Alba Iulia, Romania		absorption spectrometer, Ionica Mihai, Center for Military
			Medical Scientific Research
	cofee		cofee
	Oral Session 3.1 Modeling, design, and simulation		Oral Session 3.2 Modeling, design, and simulation
	(continued)		
Chairs	Emil M Oanta, Gheorghe Marc	Chairs	Octaviana Datcu- Viorel Manea
10.40-	Paper No.: OMN100-68, Quality engineering tools focused on	10.40-	Paper No.: OMN100-64, Destructive effects induced by the
11.00	high power LED driver design using boost power stages in	11.00	electron beam in Scanning Electron Microscopy Marian C
	switch mode, Gheorghe Marc, "1 Decembrie 1918" University		<b>Popescu,</b> National Institute for R&D in Microtechnologies
	of Alba Iulia		
11.00-	Paper No.: OMN100-130, <b>Developing smart lighting LED-</b>	11.00-	Paper No.: OMN100-59, <b>High performance genetic algorithm</b>
11.20	based device by using light parameterization and control	11.20	for VLSI circuit partitioning, Simona Dinu, Constanta Maritime
	method, Gheorghe Marc, University of Alba Iulia		University

11.40-	Paper No.: OMN100-97, Modeling of the thermal comfort in	11.40-	Paper No.: OMN100-120, Avoiding the parametric roll
12.00		12.00	*
12.00	vehicles using COMSOL, Camelia Gavrila Technical	12.00	Nicoleta Acomi, Constanta Maritime University
12.00	University of Civil Engineering	12.00	
12.00-	Paper No.: OMN100-34, Original analytic solution of a half-	12.00-	Paper No.: OMN100-160, <b>Streamlining the functioning of the</b>
12.20	bridge modelled as a statically indeterminate system,	12.20	FSO systems by choosing the optimal transmission/reception
	Emil M Oanta, Constanta Maritime University		components, Viorel Manea, National Communications Studies
			and Research Institute,
12.20-	Paper No.: OMN100-37, Original analytical model of the	12.20-	Paper No.: OMN100-145, Steganographic embedding of a
12.40	hydrodynamic loads applied on the half-bridge of a circular	12.40	secret message in a video flow,
	settling tank, Emil M Oanta, Constanta Maritime University		Octaviana Datcu, Politehnica University of Bucharest
Session	Oral Session 6 Micro/ nanophotonics and micro/	Session	Oral Session 7 Diffractive, micro optics, and optical signal
	nanotechnologies		processing
Chairs	Rodica Mariana Ion, Roxana-Mariana Beiu	Chairs	Mihail Iovu, Mihai Ionica
Chairs 12.50-	Rodica Mariana Ion, Roxana-Mariana Beiu Paper No.: OMN100-103 Nanomaterials and prezervation	Chairs 12.50-	Mihail Iovu, Mihai Ionica Paper No.: OMN100-48, Influence of the Coordination Number
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12.50-	Paper No.: OMN100-103 Nanomaterials and prezervation	12.50-	Paper No.: OMN100-48, Influence of the Coordination Number
12.50-	Paper No.: OMN100-103 Nanomaterials and prezervation mechanisms of architecture monuments,	12.50-	Paper No.: OMN100-48, Influence of the Coordination Number Z on the Micro-Raman Spectra of Ternary Chalcogenide
12.50- 13.10	Paper No.: OMN100-103 Nanomaterials and prezervation mechanisms of architecture monuments,  Rodica Mariana Ion, Valahia University, Targoviste	12.50- 13.10	Paper No.: OMN100-48, Influence of the Coordination Number Z on the Micro-Raman Spectra of Ternary Chalcogenide Glasses, Mihail Iovu, Academy of Sciences of Moldova
12.50- 13.10	Paper No.: OMN100-103 Nanomaterials and prezervation mechanisms of architecture monuments,  Rodica Mariana Ion, Valahia University, Targoviste  Paper No.: OMN100-142, Analysis of Curved Shape Micro-	12.50- 13.10-	Paper No.: OMN100-48, Influence of the Coordination Number Z on the Micro-Raman Spectra of Ternary Chalcogenide Glasses, Mihail Iovu, Academy of Sciences of Moldova Paper No.: OMN100-122, Ionization pattern obtained in
12.50- 13.10-	Paper No.: OMN100-103 Nanomaterials and prezervation mechanisms of architecture monuments,  Rodica Mariana Ion, Valahia University, Targoviste  Paper No.: OMN100-142, Analysis of Curved Shape Micromirrors For On-Chip Communication,	12.50- 13.10-	Paper No.: OMN100-48, Influence of the Coordination Number Z on the Micro-Raman Spectra of Ternary Chalcogenide Glasses, Mihail Iovu, Academy of Sciences of Moldova  Paper No.: OMN100-122, Ionization pattern obtained in electrospray ionization or atmospheric pressure chemical
12.50- 13.10-	Paper No.: OMN100-103 Nanomaterials and prezervation mechanisms of architecture monuments,  Rodica Mariana Ion, Valahia University, Targoviste  Paper No.: OMN100-142, Analysis of Curved Shape Micromirrors For On-Chip Communication,	12.50- 13.10-	Paper No.: OMN100-48, Influence of the Coordination Number Z on the Micro-Raman Spectra of Ternary Chalcogenide Glasses, Mihail Iovu, Academy of Sciences of Moldova  Paper No.: OMN100-122, Ionization pattern obtained in electrospray ionization or atmospheric pressure chemical ionization interfaces, for authorized antidepressants in
12.50- 13.10-	Paper No.: OMN100-103 Nanomaterials and prezervation mechanisms of architecture monuments,  Rodica Mariana Ion, Valahia University, Targoviste  Paper No.: OMN100-142, Analysis of Curved Shape Micromirrors For On-Chip Communication,	12.50- 13.10-	Paper No.: OMN100-48, Influence of the Coordination Number Z on the Micro-Raman Spectra of Ternary Chalcogenide Glasses, Mihail Iovu, Academy of Sciences of Moldova  Paper No.: OMN100-122, Ionization pattern obtained in electrospray ionization or atmospheric pressure chemical ionization interfaces, for authorized antidepressants in Romania, Mihai Ionica
12.50- 13.10 13.10- 13.30	Paper No.: OMN100-103 Nanomaterials and prezervation mechanisms of architecture monuments,  Rodica Mariana Ion, Valahia University, Targoviste  Paper No.: OMN100-142, Analysis of Curved Shape Micromirrors For On-Chip Communication,  Roxana-Mariana Beiu, "Aurel Vlaicu" University, Arad	12.50- 13.10 13.10- 13.30	Paper No.: OMN100-48, Influence of the Coordination Number Z on the Micro-Raman Spectra of Ternary Chalcogenide Glasses, Mihail Iovu, Academy of Sciences of Moldova  Paper No.: OMN100-122, Ionization pattern obtained in electrospray ionization or atmospheric pressure chemical ionization interfaces, for authorized antidepressants in Romania, Mihai Ionica  Center for Military Medical Scientific Research

# 14.00-15.00 Lunch

15.00 -19.00 <u>Posters Session</u> 1

**19.00 Dinner** 

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#### FRIDAY, 26 AUGUST 2016

# 15.00-19.00 POSTER SESSION 1

# Chairs: Mihail Iovu, Victor Damian

- PS1-1.Ion-beam Synthesis of Zinc-based Nanoparticles in SiO2, Paper No.: OMN100-70
- PS1-2.AC electric properties of nanocomposite (FeCoZr)0.818(CaF2)0.182 annealed in the tubular furnace, Paper No.: OMN100-71
- PS1-3.Optical registration of transformer oil absorption processes in electrical pressboard nano-capillaries, Paper No.: OMN100-72
- PS1-4.Impedance of (CoFeZr)0,559(PbZrTiO3)0,441 nanocomposite annealed in a tubular furnace, Paper No.: OMN100-73
- PS1-5.The influence of strong electric fields on the DC conductivity of the composite cellulose, insulating oil and water nanoparticles, Paper No.: OMN100-74
- PS1-6.Structural features of the multilayer nitride coatings formation, Paper No.: OMN100-81
- PS1-7.Mechanical action of the transverse spin flows in evanescent fields, Paper No.: OMN100-95
- PS1-8.Features of the formation of structure and properties of transition metals boridonitrides composite films, Paper No.: OMN100-77
- PS1-9.Structural analysis of multilayer metal nitride films CrN/MoN using electron backscatter diffraction (EBSD)

Paper No.: OMN100-80

PS1-10.Methods and means of FourierStokes polarimetry and the spatial frequency filtering of phase anisotropy manifestations,

Paper No.: OMN100-15

PS1-11.Methods and means of Stokes-polarimetry microscopy of optically anisotropic biological layers, Paper No.: OMN100-16

#### Chairs: Claudia Zenkova, Catalin Logofatu,

- PS1-12.Methods and means of Fourier-Stokes polarimetry and the spatial-frequency filtering of phase anisotropy manifestations in endometriosis diagnostics Paper No.: OMN100-50
- PS1-13.Photoconductivity of amorphous GexAsxSe1-2x and (As4S3Se3)1-xSnx thin films Paper No.: OMN100-23
- PS1-14. Technology and optical characterization of luminophore coordination compound Eu(o-MBA) 3Phen and nanocomposite Eu(o-MBA)3Phen/PEPC, Paper No.: OMN100-40
- PS1-15.Bistability properties magnetic micro-nanowires, Paper No.: OMN100-94
- PS1-16.Simulation of nonlinear electron dynamics in tetramer metal-carbon nanoclusters

- Paper No.: OMN100-53
- PS1-17.Absorption and emission spectra of Ga1.7Ge25As8.3S65 glasses doped with rareearth ions, Paper No.: OMN100-56
- PS1-18.Energy transfer of non-equidistant radiators via the nonlinear excitation mechanism inside of an optical cavity, Paper No.: OMN100-84
- PS2-19.Preparation of the cast glass-coated amorphous magnetic microwires, Paper No.: OMN100-117
- PS1-20.Smart Comunication with LabView, Paper No.: OMN100-38
- PS1-21.Synthesis and characterization of novel main chain bisazobenzene polyphosphonates Paper No.: OMN100-108

## Chairs: Ana-Maria Solonaru, Aurica Farcas

- PS1-22.New complexes of silver (I) with N-hydroxy-succinimide, Paper No.: OMN100-121
- PS1-23. Analysis and simulation of industrial distillation processes using a graphical system design model, Paper No.: OMN100-138
- PS1-24. 3D THz hyperspectrum applied in security check-in, Paper No.: OMN100-78
- PS1-25. Terahertz spectroscopic investigations of hazardous substances, Paper OMN100-83
- PS1-26.Assessment of illumination conditions in a single-pixel imaging configuration, Paper No.: OMN100-89
- PS1-27.Novel methodology for precise anisotropy magnetoresistance measurements in perpendicular geometry, Paper No.: OMN100-24
- PS1-28. Technological studies for plasmonic metasurfaces, Paper No.: OMN100-88
- PS1-29. 3D simulation for solitons used in optical fibers, Paper No.: OMN100-20
- PS1-30.Comparative studies on dimming capabilities of retrofit LED lamps, Paper No.: OMN100-149
- PS1-31.Low energy switching driver for printed electrochromic displays, Paper No.: OMN100-148

#### SATURDAY, 27 AUGUST 2016

## 09.00-13.00 POSTER SESSION 2

#### Chairs: Paul Schiopu, Dorin Dadarlat

PS2-1.Investigations upon the effects of an auxiliary brake system on the working parameters of diesel engines

Paper No.: OMN100-115

PS2-2. Experimental investigation of micro heat pipe with extra fluid,

Paper No.: OMN100-30,

PS2-3.Influence of spray nozzle shape upon atomization process,

Paper No.: OMN100-43

PS2-4. Studies concerning the effect of large droplets creation during fuel atomization

Paper No.: OMN100-36

PS2-5.A new mechatronic set-up and technique for investigation of firearms,

Paper No.: OMN100-143

PS2-6.Optical investigation of electromagnetic fuel atomizers

Paper No.: OMN100-113

PS2-7. Convection's enhancement in thermal micro pipes using extra fluid and shape memory material

Paper No.: OMN100-28

PS2-8. Measurement strategy and analytic model to determine firing pin force

Paper No.: OMN100-154

PS2-9.Supercharging an internal combustion engine by aid of a dual-rotor bi-flux axial compressor,

Paper No.: OMN100-63

PS2-10.Influence of the cooling degree upon performances of internal combustion engines

Paper No.: OMN100-65

PS2-11.Heat transfer at the sintered layer - polysynthetic material interface inside heat micro pipes,

Paper No.: OMN100-49

PS2-12.Heat transfer within a flat micro heat pipe with extra liquid

Paper No.: OMN100-52

#### Chairs: Ion Ileana, Adrian Tulbure

PS2-13. Virtual automatic management system for monitoring the pressurized equipments

Paper No.: OMN100-140

PS2-14.Development and testing of an audio forensic software for enhancing speech signals masked by loud music

Paper No.: OMN100-119

PS1-15.Optical measurements for excitation of CdTe Quantum Dots

Paper No.: OMN100-14

PS2-16.Studying the thermal regime of power leds by using the embedded protection diode Paper No.: OMN100-62

PS2-17.Research and investigation of a communication chain on optical fiber with a Fabry-Perot power diode

for the automotive industry

Paper No.: OMN100-124

PS2-18. The influence of vibrations on time reference signals generated using quartz crystals

Paper No.: OMN100-141

PS2-19. Analysis of power supply circuits for electroluminescent panels

Paper No.: OMN100-147

PS2-20.Embedded systems for controlling LED matrix displays

Paper No.: OMN100-152

PS2-21.A new approach in the development of quality management systems for (micro)electronics

Paper No.: OMN100-144

PS2-22.E-learning platform for automated testing of electronic circuits using signature analysis method

Paper No.: OMN100-153

PS2-23.Investigation of electromagnetic couplings between planar open-loop triangular-shaped resonators in microstrip and in multilayer technologies,

Paper No.: OMN100-102

#### Chairs: Florin Garoi, Andrei Drumea

PS2-24. Quantitative phase imaging of neuronal networks with programmable illumination,

Paper No.: OMN100-86

PS2-25.Mathematical modeling and simulation of a thermal system

Paper No.: OMN100-100

PS2-26.On the performance of Variable Forgetting Factor Recursive Least-Squares algorithms

Paper No.: OMN100-25

PS2-27. Comparative shear tests of some low temperature lead-free solder pastes,

Paper No.: OMN100-150

PS2-28. Temperature Mesurements of High Power LEDs

Paper No.: OMN100-131

PS2-29.Real-time digital holographic interferometry set-up for phase gradient study in dynamic phase objects

Paper No.: OMN100-137

PS2-30.Study on determining the photometric parameters for a white LED,

Paper No.: OMN100-127

PS2-31.Maintenance-free, super-capacitor based WSN power supply

Paper No.: OMN100-156

PS2-32. Optoelectronic method for determining platinum in biological products

Paper No.: 100-162

PS2-33. Piezoelectric devices for generating low power

Paper No.: OMN100-.163

#### SATURDAY, 27 AUGUST 2016

# 14.00-16.00 POSTER SESSION 3

#### Chairs: Razvan Tamas, Liviu Stan

PS3-1. Considerations about optimization the flow into a blending tank

Paper No.: OMN100-27

PS3-2.Management system to a photovoltaic panel based on the measurement of short-circuit currents,

Paper No:OMN100-110

PS3-3.PLM in the context of the maritime virtual education

Paper No.: OMN100-111

PS3-4.Storing wind energy into electrical accumulators

Paper No.: OMN100-114

PS3-5. Environments for online maritime simulators with cloud computing capabilities

Paper No.: OMN100-118

PS3-6.Natural ways to improve the power factor

Paper No.: OMN100-132

PS3-7.Using frequency converter for commanding and controlling for the rotational speed of an AC motor which acting a motor –propeller group,

Paper No.: OMN100-133

PS3-8.Development of Tools and Techniques for Monitoring Underwater Artifacts

Paper No.: OMN100-39

PS3-9. New approach for processing data provided by an INS onboard a vehicle

Paper No.: OMN100-69

PS3-10.Microelectronics and nanotechnology, and the fractal-like structure of information, knowledge and science

Paper No.: OMN100-6

PS3-11.Processing in (linear) systems with stochastic input

Paper No.: OMN100-8

#### Chairs: Emil Oanta, Mihaela Hnatiuc

PS3-12.Computer fluid dynamics (CFD) study of a micro annular gear pump

Paper No.: OMN100-10

PS3-13.COMPUTER fluid dynamics (CFD) study of a plate heat exchanger working with nanofluids,

Paper No.: OMN100-11

PS3-14.Harmonic distortions measured on board of a maritime vessel

Paper No.: OMN100-157

PS3-15.Propagation models for non line-of-sight scenarios

Paper No.: OMN100-17

PS3-16. Antenna Gain Measurements in the Intermediate-Field Zone,

Paper No.: OMN100-75

PS3-17. Autonomous robotic platforms for locating radio sources buried under rubble,

Paper No.: OMN100-76

PS3-18.A synthesis approach for antennas with a quasi-linear gain variation over a wide frequency range

Paper No.: OMN100-90

PS3-19.A RF time domain approach for electric arcs detection and localization systems Paper No.: OMN100-96

PS3-20. Experimental researches of marine wave parameters in the Black Sea Basin Paper No.: OMN100-55

PS3-21.Long thermal interactions of PAW with normal tooth structure and different dental biomaterials

Paper No.: OMN10010-164

PS3-22. Parameter extraction of an organic solar cell using asymptotic estimation and Lambert W function

Paper No.: OMN10010-165

PS3-23.Universal system for the automation of test setups

Paper No.: OMN100-66 Buturuga

Treatment by gliding arc of epoxy resin: Preliminary analysis of surface changes F.Faubert, M.Wartel, N.Pellerin, S.Pellerin, V.Cochett E.Regnier and B.Hnatiuc Session 7. Plasma methods and diagnostic used for surface treatments (special section)

**Silver and gold nanoparticles in glassy matrices for plasmonic applications** N. Pellerin, A. Bachar, J-P. Blondeau, C. Genevois, A.Gorczyca, K. Dzierzega and S. Pellerin

Session 4. Micro/ nanophotonics and micro/ nanotechnologies