



**10th INTERNATIONAL CONFERENCE
ON GLOBAL RESEARCH AND EDUCATION**
26 - 29 SEPTEMBER 2011, SUCEVITA, ROMANIA

CONFERENCE PROGRAM

Sunday, Sept. 25, 2011

11:00-15:30 Welcoming the participants
15:30-19:30 Transfer to Sucevita

iA2011 Conference Program

Monday, Sept. 26, 2011

Room 2 8:00-9:00 Registration

9:00-10:00 Welcome speech

10:00-10:50	I 1.1	M. Tabe	Shizuoka University	Effect of donor-level deepening in nm-scale Si SOI-MOSFETs
10:50-11:40	I 1.5	R. Jablonski	Warsaw University of Technology	Computer based sound pressure level calibration system along with application to determine hearing threshold in Pure Tone Audiometric test

Coffee break

Nanotechnology and nanometrology

12:00-12:25	O 1.1	A. V. Rogachev	Gomel State University	Plasma chemical synthesis, molecular structure and morphology of nanocomposite biocompatible antimicrobial coatings
12:25-12:50	O 2.1	K. Murakami	Shizuoka University	Low temperature and normal pressure growth of high performance rutile-phased TiO ₂ nanorods/nanoflowers for DSC application prepared by hydrothermal method

12:50-14:00 Lunch

Poster session (poster size A0 - 814 mm x 1189 mm)

P 1.1	M. Fiadosenka	Gomel State University	The optical-mechanical properties of alloyed carbon coatings
P 2.1	N.G. Gheorghe	National Institute of Materials Physics	Ferromagnetic Mn-Ge(001) layers synthesized by Molecular Beam Epitaxy
P 3.1	D.V. Gnatyuk	National University of Kyiv	Diagnostics of Surface Layers of CdTe Crystals by Polarization Methods
P 4.1	M. Shimomura	Shizuoka University	Adsorption of pyrrolidine dithiocarbamate on anatase TiO ₂ nanoparticles
P 1.2	V. Mizeikis	Shizuoka University	Modification of materials using plasma microexplosions induced by ultrashort laser pulses
P 2.2	G. Borcia	Alexandru Ioan Cuza University	He and Ar-DBD for surface modification of polymers
P 3.2	V. Tiron	Alexandru Ioan Cuza University	Electrical diagnosis of Thermionic Vacuum Arc plasma ignited in beryllium vapours
P 4.2	I. Mihaila	Alexandru Ioan Cuza University	Electrical Diagnostics of Plasma Plume Produced by High-Fluence Nanosecond Laser Ablation
P 5.2	O. G. Pompilian	Université Lille 1	Chalcogenide Thin Films Growth by Pulsed Laser Deposition
P 1.3	D.G. Popescu	National Institute of Materials Physics	FDTD analysis of photonic crystals with square and hexagonal symmetry
P 2.3	E. Dauksta	Riga Technical University	Increased radiation hardness of CdZnTe crystal by laser radiation
P 3.3	H.Kominami	Shizuoka University	Ultra-violet emission of aluminates phosphors prepared by solid phase synthesis
P 1.4	S. D. Barsukov	Gomel State University	Experimental researches of phase transitions in ceramics on the basis of titanat-barium-strontium
P 2.4	T. Hashimoto	Shizuoka University	Prediction of output power variation of solar power plant by image measurement of cloud movement
P 3.4	V.A. Gnatyuk	National University of Kyiv	Electrical Properties of CdTe-Based Structures with an n-Layer Formed by Laser-Induced Doping
P 4.4	Y. Okano	Osaka University	Grid refinement study of half-zone configuration of the Floating Zone growth system
P 5.4	Y. Tatekura	Shizuoka University	Sound Source Separation with Shaded Microphone Array
P 1.5	L. Sirghi	Alexandru Ioan Cuza University	Atomic Force Microscopy Indentation of Living Cells
P 2.5	M. Takacs	Obuda University	Approximate Reasoning Methods for Risk Management
P 3.5	I. Topala	Alexandru Ioan Cuza University	Atmospheric pressure plasma treatments of protein films and powders
P 4.5	T. Yamakawa	Shizuoka University	A Low-Cost Long-Life R-R Interval Telemeter with Automatic Gain Control for Various ECG Amplitudes
P 1.6	C. Borcia	Alexandru Ioan Cuza University	Monte-Carlo investigation of water- and tissue-equivalent polymer materials used in hadrontherapy dosimetry
P 2.6	I. Okajima	Shizuoka University	Chemical Recycling of Carbon Fiber Reinforced Plastic with Supercritical Alcohol
P 3.6	K. Murakami	Shizuoka University	Dye sensitized solar cell with carbon doped (PAN/PEG) polymer quasi-solid gel electrolyte
P 1.7	A.V. Semchenko	Gomel State University	SrBi ₂ Ta ₂ O ₉ ferroelectric sol-gel ceramics for using as FRAM layers
P 1.8	M. Bartic	Ghent University	Investigation of the photocatalytic oxidation of ethanol over TiO ₂ sol-gel films
P 2.8	Y. Okano	Osaka University	Effect of two-phase flow on drag torque in a wet clutch
P 1.11	S. Matsuda	Shizuoka University	Development of effective and ecological garbage treating system
P 2.11	D. Mihailescu	Alexandru Ioan Cuza University	Biophysical models in hadrontherapy

16:00-21:30 Social programme (Sucevita monastery, welcome party)

Tuesday, Sept. 27, 2011

Nanotechnology and nanometrology & Photonics & Electric and electronic engineering & Smart materials & Automatic control

8:35-9:00	O 3.1	D. Moraru	Shizuoka University	Temperature evolution of electron transport in single-donor transistors
9:00-9:25	O 4.1	P. Onufrijevs	Riga Technical University	Mechanism of Nanocones Formation by Laser Radiation on a Surface of Si, Ge and SiGe
9:25-9:50	O 5.1	T. Nakano	Shizuoka University	Development of GaN inversion epitaxial growth by using Mg doping GaN MOVPE
9:50-10:15	O 6.1	Y.Fukuda	Shizuoka University	Appearance Potential Spectroscopy (APS) Study of TiO ₂ and NiO Single Crystal Surfaces
10:15-10:45	Coffee break			
10:45-11:10	O 1.3	V.A. Gnatyuk	National University of Kyiv	Features of Transparent Material Marking with Nano- and Subnanosecond Laser Pulses
11:10-11:35	O 1.4	T. Akabane	SUZUKI motor corporation	Three-dimensional measurement of fast moving objects for strength analysis
11:35-12:00	O 1.8	Y. Okano	Osaka University	Transport phenomena during the fast filling process in a hydrogen tank for the fuel cell vehicle
12:00-12:25	O 1.9	D.K. Kiss	Obuda University	Anytime Solution for Categorization

Plasma physics & Biomedical engineering & Polymers and composites & Advanced biophysics and biotechnology

8:35-9:00	O 1.2	A. Ogino	Shizuoka University	Effect of Hydrogen Addition on Copper Film Deposition Using Atmospheric Pressure Plasma Jet
9:00-9:25	O 2.2	I. Topala	Alexandru Ioan Cuza University	Study of bullets produced in helium atmospheric pressure plasma jet
9:25-9:50	O 3.2	E. Benova	University of Sofia	Microwave discharges sustained by travelling waves as plasma sources for bio-medical and environmental applications
9:50-10:15	O 4.2	M. Nagatsu	Shizuoka University	Low Temperature Synthesis of Carbon Nanotube and Graphene Ribbon Using Ion-energy Controlled Microwave Plasma
10:15-10:45	Coffee break			
10:45-11:10	O 5.2	G. Popa	Alexandru Ioan Cuza University	On transitory phenomena in pulse discharges
11:10-11:35	O 1.5	M. Yamashita	Shizuoka University	Research and Development of Medicinal Materials for Diagnosing and Curing Cancer (3) --- Synthesis and Evaluation of Novel Phospha Sugar Anti-cancer Agents
11:35-12:00	O 1.6	T. Acseste	National Institute for Laser, Plasma and Radiation Physics	A new approach for synthesis in plasma of Carbon/Metal nanocomposite layers
12:00-12:25	O 1.11	T. Sako	Shizuoka University	Decomposition of Dioxins and PCBs with Supercritical Water
12:25-12:50	O 6.2	C. Focsa	Université Lille 1	Laser Experiments in a Running Hall Effect Thruster for Space Propulsion
12:50-14:20	Lunch			
14:30	Excursion			

Wednesday, Sept. 28, 2011

Young Scientist InterAcademia

8:30-10:30	iAY 1	A. V. Manole	Alexandru Ioan Cuza University	Ellipsometry study of TiO ₂ :N thin films prepared by sol-gel method
	iAY 2	C. Ghemes	Shizuoka University	Synthesis of long and spinnable multi-walled carbon nanotubes
	iAY 3	K. Ushida	Shizuoka University	Characteristic analysis of CFRP cutting with nanosecond pulsed laser
	iAY 4	M.A. Ciolan	Alexandru Ioan Cuza University	Characterization of ZnO thin films grown by pulsed laser deposition
	iAY 5	N. Kutlu	Süleyman Demirel University	TiO ₂ -based Bilayer Photo-anode for Dye-Sensitized Solar Cell Prepared by Sputter- and Spray Pyrolysis Deposition
	iAY 6	R. Nowak	Shizuoka University	Electron filling in phosphorus donors embedded in silicon nanostructures observed by KFM technique
	iAY 7	L. Velicu	Alexandru Ioan Cuza University	Effect of preparation conditions on the magnetic properties of FeCuNbSiB thin films
	iAY 8	A. Ghemes	Shizuoka University	High performance carbon nanotube fibers spun from long multi-walled carbon nanotubes
	iAY 9	N. Vranceanu	Alexandru Ioan Cuza University	Photocatalytic oxidic nano-coatings of inorganic fibrous substrates
	iAY 10	S. Dobrea	Alexandru Ioan Cuza University	Electric diagnosis of microwave plasma discharge used in NO removal

10:30-10:50

iAY 11	A.S. Chiper	Alexandru Ioan Cuza University	Pulsed DBD plasma produced inside of a closed package
iAY 12	I. Motrescu	Shizuoka University	Biochemical Assessment of Amino Acid Molecules Processed by Nitrogen Low-Temperature Plasma
iAY 13	I. Topala	Alexandru Ioan Cuza University	About the fragmentation process of monomers into the atmospheric pressure plasma reactor
iAY 14	F. Salleh	Shizuoka University	Variation of SOI Seebeck Coefficient by Applying External Bias
iAY 15	H. Ogawa	Shizuoka University	A Time-of-Flight Measurement Circuit Using a Multiple-Stage Amplifier for a Range Finder with Wide Working Range
iAY 16	I. Tani	Shizuoka University	Vehicle tracking using images of the intersection
iAY 17	K. Miwa	Shizuoka University	Improvement in Measurement System of Seebeck Coefficient by KFM
iAY 18	L. Miao	Shizuoka University	A Study on Bandwidth Mismatch Calibration for Time-interleaved A/D Converter
iAY 19	R. Rimsa	University of Leeds	P-n junction formation in i-Ge crystal by laser radiation
iAY 20	S.-B. Balmus	Alexandru Ioan Cuza University	Improvement of impedance spectroscopy methods for high permittivity materials characterization. Sample's resonances analysis
iAY 21	C. Ursu	Petru Poni Institute of Macromolecular Chemistry	Diamond-like carbon films obtained by pulsed laser deposition

Coffee break

10:50-12:50

iAY 22	V. Nica	Alexandru Ioan Cuza University	An induction-heating device for calorimetric measurements on magnetic nanoparticles
iAY 23	D. Spridon	Alexandru Ioan Cuza University	Plasma polymerized polystyrene for myoglobin biosensor surface
iAY 24	R. Okuizumi	Shizuoka University	Development of measurement system of laser efficiency in crystalline polymer welding process
iAY 25	V. Bejan	Alexandru Ioan Cuza University	UV-VIS studies of new pyrrolo-diazinic compounds with vinyl chain
iAY 26	V.S. Asadchy	Gomel State University	Simulation of the electromagnetic properties of one-turn and double-turn helices with optimal shape, which provides radiation of a circularly polarized wave
iAY 27	L.P. Curecheriu	Alexandru Ioan Cuza University	Functional properties of multiferroic ceramics prepared from core-shell Fe ₂ O ₃ @BaTiO ₃ powders
iAY 28	B. Tusor	Óbuda University	Reduced Complexity Training Algorithm of Circular Fuzzy Neural Networks
iAY 29	K. Ohshima	Shizuoka University	Search for the shortest possible time sequence using optimal control theory
iAY 30	T. Fukami	Shizuoka University	Development of method for making successive approximate curved surface considering dynamic behaviour
iAY 31	T. A. Várkonyi	Óbuda University	Robust Fixed Point Transformations in Model Reference Adaptive Control for a 4 DOF Classical Mechanical System
iAY 32	A. Asandei	Alexandru Ioan Cuza University	A single molecule approach of the interaction between ampicillin and a hybrid α -haemolysin protein pore
iAY 33	S. Gosav	Alexandru Ioan Cuza University	Importance and Sensitivity of GC-FTIR Spectra – Optimisation of ANN System Identifying Bioactive Compounds
iAY 34	S. Gosav	Alexandru Ioan Cuza University	SDA method applied on some flavonoid compounds with anti-invasive activity
iAY 35	A. Iftene	Alexandru Ioan Cuza University	Using Sentiment Analysis in Internet Surveillance
iAY 36	A. Sandovici	Alexandru Ioan Cuza University	Interconnection of multi-parameterized Volterra-Lotka-Hamilton production models
iAY 37	C. Stelea	Alexandru Ioan Cuza University	Charged multi-black holes in five dimensional spaces with Kaluza-Klein asymptotics
iAY 38	D. Trandabăţ	Alexandru Ioan Cuza University	Understanding the web using natural language semantics
iAY 39	M. Dobromir	Alexandru Ioan Cuza University	Synthesis and Characterization of RF Sputtered N-doped TiO ₂ Films
iAY 40	P. Postolache	Alexandru Ioan Cuza University	Evaluation of Reversible Component in Nanoparticle Systems Using the First and Second Order Reversal Curves
iAY 41	V. Tiron	Alexandru Ioan Cuza University	Doping control of ZnO:Al deposited by reactive HIPIMS

12:50-14:00

Lunch

14:00-15:30

Poster session (poster size A0 - 814 mm x 1189 mm)

15:30-16:30

Jury

15:30-22:00

Social program + Gala dinner

Thursday, Sept. 29 2011

8:00-11:45

Transfer to Iasi airport