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- S.-F. Zhao (National Kaohsiung Marine University, Taiwan, ROC)

SCHEDULE
INTERNATIONAL CONFERENCE ON
**PHYSICS AND MECHANICS OF NEW MATERIALS AND
THEIR APPLICATIONS**
(PHENMA-2017)

13 October 2017 (Friday)

Arrival of the PHENMA-2017 participants
1500 – 1800 Registration of PHENMA-2017 participants at Registration Desk
(Lecture Hall and Tutorial Complex Main Entrance)

14 October 2017 (Saturday)

0900-1000 Registration of PHENMA-2017 participants at Registration Desk
(Lecture Hall and Tutorial Complex Main Entrance)
1000 – 1100 Inaugural Function
1100 – 1130 High Tea
1130 – 1230 **Keynote Address 1: Prof. Sergey Mikhailovich Aizikovich,**
Don State Technical University, Rostov-on-Don, Russia
Topic: *Evaluation of Mechanical Properties of the Two-layer Coating
Using Nanoindentation and Mathematical Modeling*
Room: L-201
1230 – 1315 **Invited Lecture 1: Dr. D.P. Mondal,**
Sr. Principal Scientist,
AMPRI, Council of Scientific and Industrial Research, India
Room: L-201
1315 – 1430 Lunch Break
1430 – 1550 Oral Session 1 Room: CR-102
1430 – 1550 Oral Session 2 Room: CR-103
1430 – 1550 Poster Session 1: Synthesis & Processing
(Reports Nos. 3101 - 3134)
1550 – 1610 Tea break
1610 – 1730 Oral Session 3 Room: CR-102
1610 – 1730 Oral Session 4 Room: CR-103
1610 – 1730 Poster Session 2: Synthesis & Processing
(Reports Nos. 3135 - 3155, 6101 -6109)
1800 – 1900 Cultural Evening
1930 onwards Conference Dinner

15 October 2017 (Sunday)

- 0930 – 1015 **Invited Lecture 2: Dr. A. Rajagopal.**
Indian Institute of Technology, Hyderabad, India
Topic: *Nonlocal approaches for analysis of rods, beams, and plates*
Room: L-201
- 1015 – 1115 Oral Session 5 Room: CR-102
- 1015 – 1115 Oral Session 6 Room: CR-103
- 1015 – 1115 Poster Session 3: Industry & Management and Underwater Applications
(Reports Nos 7101 - 7114, 5101-5120)
- 1115 – 1130 Tea Break
- 1130 – 1310 Oral Session 7 Room CR-102
- 1130 – 1310 Oral Session 8 Room CR-103
- 1130 – 1310 Poster Session 4: Characterization and Research Method
(Reports Nos.4101 - 4130, 4195 - 4199, 4203)
- 1310 – 1415 Lunch Break
- 1415 – 1515 Oral Session 9 Room CR-102
- 1415 – 1515 Oral Session 10 Room CR-103
- 1415 – 1515 Poster Session 5: Materials
(Reports Nos. 1101 - 1131, 1201 - 1208)
- 1515 **Site Seeing:** Bhedaghat Marble Rocks and Dhuandhar Water Fall

16 October 2017 (Monday)

- 0930 – 1030 **Keynote Address 2: Prof. Yun-Hae Kim,**
President, Korean Association of Green Campus Initiative, The Korean
Society of Ocean Engineers, Department of Mechanical Engineering,
Korea Maritime and Ocean University (KMOU), Busan, South Korea
Topic: *Development of Slag Fiber and Its Application*
Room L-201
- 1030 – 1150 Oral Session 11 Room CR-102
- 1030 – 1210 Oral Session 12 Room CR-103
- 1030 – 1150 Poster Session 6: Characterization and Research Method
(Reports Nos. 4131 - 4165)
- 1150 – 1215 Tea Break
- 1215 – 1315 Poster Session 7: Characterization and Research Method
(Reports Nos. 4166 - 4194, 4205 - 4223)
- 1315 – 1430 Lunch Break
- 1430 – 1530 Poster Session 8: Applications and Energy Harvesting
(Reports Nos. 5121- 5154, 5202 - 5205, 2101 - 2106)
- 1430 – 1530 **Meeting of the PHENMA committee**
- 1530 – 1600 Tea Break
- 1600 – 1700 Valedictory Function

Oral Session 1: Materials

14 October 2017

1430 – 1550

Room: CR102

Chair: Muaffaq Achmad Jani

1201	Elsen Ronando, Muaffaq Achmad Jani , Ery Sadewa. Study of Bio-composites to Search and Characterize Suitable Material for Human. (Invited Talk)
4211	P. Raghu , A.Nasedkina, A. Nasedkin, B. Saswata, A. Rajagopal. Nonlocal Nonlinear Analysis of Composites.
5210	Deepesh Sharma, Raghu Piska , Amirtham Rajagopal. A Novel n-Sided Polygonal Finite Element Approach for Analysis of Isotropic Plates.
5216	H. Nanda , On Demand Tissue Adhesives for Emerging Medical Applications

Oral Session 2: Characterization and Research Methods

14 October 2017

1430 – 1550

Room: CR103

Chair: Chitsan Lin

4201	Sung-Tse Lee, Chun-Lan Huang, Chitsan Lin . Sources Characterization of Phthalates in Roadway Dusts in Industrial, Commercial and Residential Area. (Invited Talk)
4208	Dinara Gapeyenko , Prashant Jamwal, Dhawal Shah. Molecular Dynamics Simulations to Design Novel Solvents for Deep Desulfurization.
5209	Aditi Singh , S. K. Rathore. Prediction of Fatigue Crack Path in Rails under Thermo-Mechanical Loading.
6202	D.P. Jena , K. Mohapatra. Numerical Modeling for Estimating under Water Acoustic Target Strength.

Oral Session 3: Characterization and Research Methods

14 October 2017

1610 – 1730

Room: CR102

Chair: R. Sunder

4212	R. Sunder , Ramesh Korradi, Murali Mohan. Characterization of Damage Kinetics in CFRP Specimens under Static and Cyclic Loading (Invited Talk)
1210	Neeraj K. Jaiswal , Neha Tyagi, Pankaj Srivastava. First Principle Investigations for the Spintronic Properties of Cl/H Functionalized Zigzag Graphene Nanoribbons.
1207	A.A. Nasedkina, A. Rajagopal . Mathematical and Computer Homogenization Models for Bulk Mixture Composite Materials with Imperfect Interfaces.
6201	A.A. Khokhryakova, A.V. Nasedkin, A.A. Nasedkina, A. Rajagopal . Finite Element Analysis of Cymbal Transducer from Porous Piezoceramics PZT-4 with Various Material Properties

Oral Session 4: Characterization and Research Methods

14 October 2017

1610 – 1730

Room: CR103

Chair: R. Kitey

4186	Sarthak S. Singh, V. Linges, R. Kitey . Effect of Surface Morphology and Strain Rate on Aluminum/Epoxy Adhesion Strength. (Invited Talk)
4206	Amit Gahlaut , Sandeep Kumar Parashar. On Free Vibration Analysis of FGPM Cylindrical Shell Excited under d15 Effect.

4202	S. Arora, K. Kabra, G. Sharma Structural and Electronic Properties of CuS: Theory and Experiment.
3212	Prashant Athanker , Amit Kumar Singh. An Implementation Study of Porous Ti6Al4V Scaffold Design Based on Unit Cell Architecture and Porosity.

Oral Session 5: Characterization and Research Methods

15-October-2017

1015 – 1115

Room: CR102

Chair: **M. Zahid Ansari**

2205	Mohd. Zahid Ansari , Abhinaw Kumar Singh, Rajiv Ranjan, Mahak Bisen. Piezoelectric Actuators and Grippers for Micromanipulation.
4213	K.S.S. Reddy , A. Nasedkina, A. Nasedkin, B. Saswata, A. Rajagopal. Comparative Study on Progressive Damage Models for Composites.
4207	Brijesh Kumar Singh , Vipul Gupta, Swati Agrawal, V. K. Gupta, P. K. Kankar. Comparative Study of Cantilever Carbon Nanotube with Carbon Nanotube System.

Oral Session 6: Energy Harvesting

15-October-2017

1015 – 1115

Room: CR103

Chair: **A.N. Soloviev**

4217	A.N. Soloviev , R.U. Gruzdev, C.-Y. Jenny Lee, Hsiao-Wen Tin, C.-C. Yang. Polarizable Models in Molecular Dynamics for Identification of Effective Properties. (Invited Talk)
2204	Tejkaran Narolia , Vijay K. Gupta, Ivan A. Parinov. On Extraction of Energy from Rotating Objects.
2203	Wiwin Widiasih , Roenadi Koesdijarto, Hilyatun Nuha. A Literature Study of Biomass as a Bio-Energy in Indonesia.

Oral Session 7: Industry and Management

15-October-2017

1130 – 1310

Room: CR102

Chair: **R.A. Retno Hastijanti**

7204	Dwi Yuli Rakhmawati, R.A. Retno Hastijanti , Muhyin, Putu Eka D.K.W. Sustainable Alternative Energy Composition for Domestic Industries: A Case Study of Indonesia. (Invited Talk)
7201	Budi Witjaksana . Activity Based Management Model Change Order to Improve Project Cost Performance Building Construction in Surabaya City.
7206	Uniek Praptiningrum , W., Joko Santosa. Why do Ceramic Building Material, Recently Dominated in Use for Houses Interior in Surabaya Indonesia?
7208	Erni Puspanantasari Putri , Danaipong Chetchotsak. Performance Evaluation Using DEA-Multipliers Model: A Case Study of Small and Medium-size Enterprises in Thailand.
7209	Herlina, Muslimin Abdulrahim , Handy Febri Satoto. A Comparison of Particle Swarm Optimization-Support Vector Machine and Cross Entropy-Support Vector Machine in Predicting Financial Distress.

Oral Session 8: Synthesis and Processing

15-October-2017

1130 – 1310

Room: CR103

Chair: Yu.F. Migal

3202	Yu.F. Migal , V.I. Kolesnikov. Diffusion Method of Steel Boriding without Formation of Iron Borides.(Invited Talk)
3201	C. Lin , A. Kaewlaoyoong, C.T. Vu, W.Y. Huang. Treatment of Dioxin-contaminated Soil by Organic Waste Co-composting System.
3203	Sukhdeep Singh , Rituraj Rajpoot, Vansh Bedi, Sandeep Vats, Vineet Srivastava. Effect of Process Parameters on Shrinkage of Acrylonitrile Butadiene Styrene Parts Fabricated by 3D Printing Process.
3204	Min Yen Yeh, Wei Ru Li, Shiow Yueh Lee, Chih-Feng Yen, Chyi-Da Yang, Shun-Hsyung Chang . Synthesization of TiO ₂ /NaTaO ₃ Core-shell Nanophotocatalyst.
4218	S. Anil Kumar , N.C. Mahendra Babu. Sequential Cold Expansion and Resulting Beneficial Residual Stress Prediction around Adjacent Fastener Holes.

Oral Session 9: Characterization and Research Methods

15-October-2017

1415 – 1515

Room: CR102

Chair: D.P. Jena

4224	Karisma Mohapatra, D.P. Jena . Mechanics of Acoustic Wave Splitting and Guiding Using Combination of Different Unit-Cells in a Sonic Crystal. (Invited Talk)
4225	Rituparna Datta, Shubham Agarwal, Arun Kumar Sharma , Bishakh Bhattacharya. Displacement Transmissibility Based Parameter Identification of PDMS Using Genetic Algorithm.
3210	D.P. Jena, K. Mohapatra . Benchmark Analysis of a Helmholtz Resonator for Estimating Acoustic Metamaterial Properties.

Oral Session 10: Applications

15-October-2017

1415 – 1515

Room: CR103

Chair: Maula Nafi

5204	Maula Nafi , Abdul Halik, Ivan A. Parinov, Shun-Hsyung Chang. Application of Bottom Ash Reinforced Aluminum Metal Matrix Composite for Motorcycle Disc Brake. (Invited Talk)
5206	Ranjeet Singh , R. B. Sharma, Anoop Sindhu. Detection of the Pitting Failure of Helical Gear Using Wear Debris Analysis.
5213	Shakir Mohammed , S. K. Rathore. Design Optimization of Variable Stiffness Composite Laminates using Strength Criterion.

Oral Session 11: Applications

16-October-2017

1030 – 1150

Room: CR102

Chair: Tanuja Sheorey

5211	R.Ruban, Tanuja Sheorey , Gautam Dutta. Thermal Mechanical Analysis of Nuclear Fuel Rod Cladding Material on the Base of Safety Aspects with Respect to Hydrogen Distribution. (Invited Talk)
5201	Rakesh Kumar Haldkar , Tanuja Sheorey, Vijay Kumar Gupta. Effect of Operating Frequency and Needle Diameter on Performance of Piezoelectric Micropump.
5207	Shashank Kumar, Mohd. Zahid Ansari . Modelling and Numerical Characterization of High-sensitive Microcantilever Biosensors with Parabolic Piezoresistor.
5215	Sahil Kalra , Rituparna Datta, B.S.Munjal, Bishakh Bhattacharya. Smart Reconfigurable Parabolic Space Antenna for Variable Electromagnetic Patterns.
4204	Swati Agrawal , V. K. Gupta, P. K. Kankar. Study of Horn Shaped Double Single Walled Carbon Nanotube System via Modified Couple Stress Theory.

Oral Session 12: Energy Harvesting and Research Methods

16-October-2017

1030 – 1210

Room: CR103

Chair: Amit Kumar Singh

3209	Arvind Kumar Verma, Amit Kumar Singh . Surface Modification of Titanium Dental Implant Using Reactive Sputtering.
2201	Sultan Singh, Vijay Kumar Gupta, Sujoy Mukherjee . Piezoelectric Based Energy Harvester Embedded in Shoe for Wearable Electronics (Invited Talk).
2202	Sunil Kumar Prajapati, Vijay Kumar Gupta, Sujoy Mukherjee . Modeling and Analysis of Stepped Beam Piezoelectric Energy Harvester.
5212	Shivdayal Patel . Progressive Damage Modeling on Basalt-Kevlar Hybrid Composite under Ballistic Impact.
4215	Mithilesh K. Dikshit, Pravin E. Ingle . Investigation of Mechanical Properties of CNT Reinforced Epoxy Nanocomposite: A Molecular Dynamic Simulations.

Poster Session 1: Synthesis and Processing

14 October 2017

1430 – 1550

Chair: Sujoy Mukherjee

3101	I.Zh. Bunin, V.A. Chanturiya, N.E. Anashkina, M.V. Ryazantseva, G.K. Khachatryan. Influence of Nanosecond Electromagnetic Pulses on the Structural Characteristics, Physico-Chemical and Technological Properties of Diamonds.
3102	V. V. Ilyasov, B. C. Meshi, D. K. Pham, Ch.V. Nguyen, O. M. Holodova, T. P. Zhdanova, I. V. Ershov, N. V. Prutsakova, I. G. Popova. Laser-Induced Engineering of Surface Structures and Properties on Oxygen-Adsorbed TiC(111) Surface: First-Principles Calculations.
3103	S.P.Malyukov, A.V.Sayenko, Y.V.Klunnikova. Laser Annealing of Perovskite Film for Solar Cells Application.
3104	D.V.Manukovskaya, N.V.Sidorov, M.N.Palatnikov. Statistical Separation of Photoinduced Light Scattering Layers in LiNbO ₃ Crystals.
3105	A. Surahman, Yu.V. Kabirov, K.G. Abdulvakhidov, M.F. Kupriyanov, A.G. Rudskaya. Non-stoichiometry Control of the YBCO High-Temperature Superconductor.
3106	D.A. Zhilin, V.I.Yatsenko, M.E.Kutepov, T.A.Minasyan, E.M.Kaidashev. Growth and Study of Zinc Oxide Nanorods Arrays on Piezoelectric Substrates
3107	A.A. Alekseenko, N.I. Neumyvaichenko, V.E. Guterman, V.A. Volochaev, S.V. Belenov Study of electrochemical behavior of Pt(Cu)/C catalysts with various copper content for fuel cells.
3108	A. A. Alekseenko, S.P.Shpanko, E.A.Ashihina, V. E. Guterman. Effect of CO Molecules on Nucleation and Growth of Pt Nanoparticles and on the Structure and Activity of Pt/C Electrocatalysts.
3109	S. V. Balakirev, M. S. Solodovnik, M. M. Eremenko, I. A. Mikhaylin, O. A. Ageev. Theoretical Study of the Epitaxial Growth of GaAs on the (001), (110) and (111)A Surfaces.
3110	S. V. Belenov, V.V.Pryadchenko, V. S. Menshchikov, V.V.Srabionyan, N. Yu.Tabachkova, A.I.Nevelskaya, S. A. Kirakosyan, V. A. Volochaev, V. E. Guterman. Post-treatment of Pt- <i>M</i> (<i>M</i> = Cu, Co, Ni)/C Electrocatalysts with Different Distribution of Metals in Nanoparticles: Evolution of Structure and Activity.
3111	S. I. Dudkina, I. P. Raevski, L. A. Shilkina, L. A. Reznichenko, O. N. Razumovskaya, T. V. Krasnyakova. The Possibility to Manage the Physical Properties of the Solid Solutions Based on Sodium Niobate by Varying the Conditions of Their Structure Formation.
3112	S. I. Dudkina, L. A. Reznichenko, L. A. Shilkina, O. N. Razumovskaya, S. A. Mitchenko. Effects of the Heterovalent Modification of the Solid Solutions Based on Sodium Niobate
3113	T.V. Krasnyakova, D.V. Nikitenko, E.V. Khomutova, V.V. Burkhovetski, A.A. Pavelko, S.A. Mitchenko. Supported K ₂ PdCl ₄ /C and H ₂ PdCl ₄ /C Catalysts for Acetylene Hydrochlorination: Study of the Surface and the Reaction Mechanism.

3114	S.P. Malyukov, D.I. Cherednichenko, Yu.V. Klunnikova. Investigation of Shape Factor Influence on Sapphire Crystal Quality.
3115	A.V. Shevchuk, S.P. Kubrin, N.M. Novikovskiy, A.B. Nazarenko, Yu.V. Kabirov, A.G. Rudskaya, M.F. Kupriyanov. Formation of $(1 - x)\text{BiFeO}_3 - x\text{PbFeO}_3$ Solid Solutions.
3116	V.A. Babunski, V.Z. Borodin, Yu.N. Zakharov, I.A. Parinov, I.P. Raevsky, V.A. Chebanenko, E.V. Rozhkov, N.S. Filatova, E.S. Fomenko. Retrospective Analysis of the Unipolarity of BaTiO_3 Single Crystals during Process of Their Growth by the Remeika Method.
3117	S. V. Balakirev, M. S. Solodovnik, M. M. Eremenko, I. A. Mikhaylin, O. A. Ageev. Investigation of the Nucleation and Growth Processes During Droplet Epitaxy of Indium on the GaAs (001) Surface.
3118	E.M. Bayan ¹ , T.G. Lupeiko ¹ , L.E. Pustovaya ² , M.G. Volkova ¹ , A.S. Kostenikova ¹ , A.G. Fedorenko ³ . Synthesis and Photocatalytic Properties of TiO_2 Nanotube Arrays Obtained via Hydrothermal Method.
3119	O.I. Il'in, N.N. Rudyk, M.V. Il'ina, A.A. Fedotov, D.O. Suchkov, V.V. Anistratov. Effect of the Activation Time in Ammonia Atmosphere on Growth of Carbon Nanotubes.
3120	Indra Sulania, R. Blessy Pricilla, Lakshmi GBVS, D. Kanjilal. Characterization and Synthesis of Nanocomposite Thin Films of $\alpha\text{-Fe}_2\text{O}_3$ (nanoparticles) and Nafion (polymer) for Bio-sensing Applications.
3121	V. S. Klimin, A.V. Eskov, S.Y. Krasnoborodko. Surface Roughness Study of Silicon Nitride Obtained by Plasma-Chemical Deposition in SiH_4 and N_2O Gases.
3122	V.S. Klimin, N.N Petrov. Mathematical Model and Simulation Results of Plasma Enhanced Chemical Vapor Deposition.
3123	V.S. Klimin, N.N Petrov. Investigation of the Dependencies of the Thickness of the Deposited Layer of Silicon Nitride and Silicon Oxide on Various Surfaces in the Combined RF Plasma Discharge.
3124	V.S. Klimin, N.N Petrov. Mathematical Model and Results of Plasma Enhancement Modeling of Chemical Deposition from Silicon Nitride Vapors Taking into Account the Refinement Factor.
3125	V. S. Klimin, M. S. Solodovnik, A.V. Eskov, S.Y. Krasnoborodko. Experimental Studies of the Effect of Anisotropy of the Plasma Etching Process on the Deviation Angle from the Vertical.
3126	V.S.Klimin, E.A.Vorobchenko. Investigation of the Properties of the Pressure Sensor Based on Carbon Nanomaterials Obtained by Plasma Methods.
3127	I.N. Kots, V.S. Klimin, A.S. Kolomyitsev, O.A. Ageev. Mask Formation for Plasmochemical Silicon Etching by the Focused Ion Beam Method.
3128	I.N.Kots, V.S. Klimin, A.S. Kolomyitsev, V.V. Polyakova, O.A. Ageev. Mask Formation from Gallium Arsenide for Plasma Etching by the Focused Ion Beam Method.
3129	L. A. Reznichenko, L. A. Shilkina, S. I. Dudkina, S. A. Mitchenko. On the Formation of Phase States and Macro-responses in Alkali Metal Niobates.

3130	A.A.Rezvan, V.S.Klimin. Investigation of Auto emission Characteristics of Field Emitter Based on Graphene Films.
3131	N.N. Rudyk, O.I. Il'in, M.V. Il'ina, A.A. Fedotov, E.A. Vorobchenko. Influence of CVD-Process Parameters in Creation of CNT-Based Gas Sensors Sensitive Elements.
3132	M.S.Solodovnik, S.V.Balakirev, M.M.Eremenko, I.A.V.I.Mikhaylin, Avilov, S.A.Lisitsyn, O.A.Ageev. Formation of Ga Droplet Arrays by MBE.
3133	T.N. Sorokun, L.A. Shilkina, J.Y. Zubarev, S.I. Dudkina, L.A. Reznichenko. Phase Formation of Perovskite-like Layered Compounds in the NaNbO ₃ – Ca(Sr) ₂ Nb ₂ O ₇ System.
3134	M.V. Talanov ¹ , L.A. Shilkina ¹ , N.P. Shabel'skaya ² , V.M. Talanov ² , L.A. Reznichenko ¹ . Influence of the Sintering Temperature on the Structure and Dielectric Properties of Magnetoelectric Composites.

Poster Session 2: Synthesis and Processing

14 October 2017

1610 – 1730

Chair: Jiing-Kae Wu

3135	Z.E.Vakulov, Yu.N. Varzaryev, V.N. Vyazmitin, V.V. Polyakov. Thermal Stability of Nanocrystalline ZnO Flms Grown by Ion Beam Assisted Pulsed Laser Deposition for Biomedical Tasks.
3136	Z.E. Vakulov, E.G. Zamburg, O.A. Ageev. Influence of IBAD PLD Modes on Morphological Parameters of LiNbO ₃ Films.
3137	Vladislav Menshchikov, Sergey Belenov, Vadim Volochev. Comparative Study of Activity of PT/C and PTCu/C Catalysts in the ORR and Methanol Electrooxydation,
3138	A. Zhilenkov. Solution of the Inverse Problem of Uniform Thermal Field on the Surface of Susceptor in Vapor-phase Epitaxy Reactor with Induction Heating.
3139	A. Zhilenkov, A. Kapitonov. Synthesis and Modeling of the Optimum Design of Heating Inductor for III-N Crystal Growth Reactor.
3140	A.A. Nesterov, E.A. Panich. Low-temperature Technology to Manufacture Powders of Lead-containing Phases of the Oxygen-octahedral Type.
3141	A. A. Nesterov, M. I. Tolstunov, E. A. Panich. Use of Chelate Complexes of Lead (II) in Technologies on Synthesis of Ultradisperse Powders of Phases with the Perovskite-type Structure.
3142	Oleg V. Mkrtychev. Temperature Field of the Irradiated Material in the Laser-Induced Damage.
3143	A.S. Pavlets, K.O. Paperzh, A.A. Alekseenko. Preparation and Research of Pt(Cu)/C Materials with Different Structure of Nanoparticles.
3144	Puji Slamet, Ahmad Ridhoi. Change in Dimension of Casted Al-Bottom Ash Coal Composite after T6 Heat Treatment.
3145	I.N. Novomlinskij, I.A. Gerasimova, V.E. Guterman. Composite Platinum Catalysts on SnO ₂ -C Support.
3146	Biranchi Panda, Suvash Chandra Paul, Ming Jen Tan. Linking Geopolymer Kinetics to Material Fresh Property for Construction-scale Additive Manufacturing Process.

3147	Chih-Feng Yen, Shun-Hsyung Chang, Min Yen Yeh, Kwok-Keung Chong, Chyi-Da Yang, Chong-Yi Lee and Lyu-Wei Liao. Material Analysis of Chemical Vapor Phase Deposited TiO ₂ /Si Diode.
3148	E.Yu. Gusev, J.Y. Jityaeva, O.A. Ageev. Effect of PECVD Parameters on Mechanical Stress in Silicon Films.
3149	N.A.Teplyakova, N.V. Sidorov, M.N. Palatnikov, A.V. Syuy, D.S. Shtarev. Optical Homogeneity and Photorefractive Properties of Lithium Niobate Crystals Grown from Charge of Different Genesis.
3150	S.V. Titov, I.A. Verbenko, V.V. Titov, L.A. Shilkina, L.A. Reznichenko. About Some Physical and Technological Principles of Ferroelectric Ceramic Materials Creation Based on Alkali Metals Niobates.
3151	B.S. Polovinkin, L.A. Shilkina, I.A. Verbenko, S.V. Khasbulatov. Optimization of Preparation Conditions and properties of Piezoceramic Materials Based on the System BST.
3152	R.V. Tominov, V.A. Smirnov, O.A. Ageev. Investigation of the Nanostructures Formation on the Photoresist Surface Using Dynamic Plowing Nanolithography.
3153	I.P. Raevski, S.P.Kubrin, A.A. Gusev, V.P. Isupov, H. Chen, A.V. Blazhevich, S.I. Raevskaya, V.V. Titov, M.A. Malitskaya, C. - C. Chou. The Effect of Mechanical Activation on Dielectric Properties of Ceramic Relaxor Ferroelectrics PbMg _{1/3} Nb _{2/3} O ₃ and PbFe _{1/2} Ta _{1/2} O ₃
3154	I.P. Raevski, U.A. Kuprina, I.N. Zakharchenko, A.A. Gusev, V.P. Isupov, O.A. Bunina, H. Chen, A.V. Blazhevich, S.I. Raevskaya, V.V. Titov, M.A. Malitskaya, E.I. Sitalo, C. - C. Chou. Structural and Dielectric Studies of Disordered PbYb _{0.5} Nb _{0.5} O ₃ Ceramics Sintered from Mechanically-activated Nanopowders
3155	A.V. Nasedkin. Finite Element Modeling of Micro- and Nanodimensional Helical Piezoelectric Transducers
6101	Chin-Feng Lin, Yi-Tai Hung, Shun-Hsyung Chang, Ivan A. Parinov, Sergey N. Shevtsov. FBMC-Based Underwater Transmission of Voice Signals.
6102	Jeng-Cheng Liu, Yuang-Tung Cheng, Hsien-Sen Hung, Shun-Hsyung Chang. Development of Hydrophone Array Applied Novel DOA Technology for Underwater Sensing.
6103	Shern-Jian Chuan, Yi-An Liao. Experimental Study on the Bubbles Size from Multi-holes Venturi Jet at Different Temperature and Salinity.
6104	A.P. Voloshchenko, G.V. Soldatov. Application of Hydroacoustic Methods and Tools for Solving Problems in Geomorphology, Paleogeography and Underwater Archeology.
6105	A.P. Voloshchenko, G.V. Soldatov. Monitoring the Technical State of the Underwater Part of Engineering Structures by Hydroacoustic Means.
6106	V.Y.Voloshchenko. The Nonlinear Acoustic Effect Application for the Fish-finding Echo Sounder Upgrading.
6107	V.Y.Voloshchenko. The Possibility of Performance of Potential's Enhancement for the Fish-Finding Equipment.
6108	V.Y.Voloshchenko, E.V.Voloshchenko, E.S.Zabolotniy. The Parametric Array's Application in the Wavegraph for the Seadrome's Aviation Water Area.

6109	V.Y.Voloshchenko, E.V.Voloshchenko, E.S.Zabolotniy. The Seadrome: Advanced Tendencies of the Above-Water and Bottom-Based Navigation Equipment's Designing for Runways, Marking on the Aviation Area.
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Poster Session 3: Underwater Applications and Industry & Management
15-October-2017

1015 – 1115

Chair: Yashpal Singh Katharria

7101	Mahjudin, Achmad Daengs GS, Muaffaq A. Jani. The Impact of Perceived Logistics Service Quality on Brand Factors in the E-commerce Context
7102	Mahjudin, Nurmawati. Measuring Online Service Quality Using Offline Perceived Quality Conceptual Model.
7103	R. Marleno, W. Oetomo. Comparative Study of Ready Mix Concrete Cost with Concrete Production in Site.
7104	R. Marleno, W. Oetomo. Concept of Stakeholders Factors of Influence on the Success of Government Project of Building Development in Indonesia.
7105	Wateno Oetomo, Suparmen, Priyoto. Analyze the Implementation of Occupational Safety and Health Environment (K3-L) on the Construction of a Multipurpose Building Project.
7106	J.-K. Wu, Y.-L. Hsu, E.-H. Wu. An XML and Object-Network Based Piping System Design Information Management.
7107	A.Y. Poluyan, O. A. Purchina, D.D. Fugarov, I.D. Tkachuk. Adaptive Algorithm of the Choice of the Optimal Variant of the System of Mistakes Detection by Using Criterion of Reliability.
7108	A.Y. Poluyan, O. A. Purchina, D.D. Fugarov, I.D. Tkachuk. Parallel Searching for Problem Solving about an Extreme Way.
7109	Riska Nurtantyo Sarbini, Ayu Fatmawati, Fauziyah. LEARNING ENGLISH LANGUAGE BASED ON DEVELOPING GAME USING ROLE PLAYING MECHANISM FOR YOUNG LEARNER.
7110	M. Faisal, Djoko Santoso. The Influences of Use HPL at Finishing Interior Architectural Design (Control Principal Design Architectural Concept).
7111	V. I. Reshnyak, S. S. Sokolov, A. A. Zhilenkov, T. V. Storchak, Ya. N. Tihomirov. About the Course of Creation of Information and Analytical System of Environmental Monitoring and Control.
7112	G. A. Zhuravlev, Yu. E. Drobotov, A. S. Piskunov. Accuracy of Comparative Evaluations of Analytical and Numerical Solutions for Contact Problems.
7113	A.V. Cherpakov, I.O. Egorochkina, E.A.Shlyakhova, A.G. Zarovny, I.A. Parinov. Estimation of the Technical Condition of Power Transmission Line Supports.
7114	Erni Puspanantasari Putri, Muslimin Abdulrahim. Improving Competitive Business Advantages of Small and Medium Manufacturing Industry in Indonesia.
5101	L. P. Schulkin, A. V. Cherpakov. Determining the Life of the Pipeline Construction by Using Parameters of Gamma-percent Resource.
5102	O. V. Bocharova, A. V. Sedov, I. E. Andjikovich, V. V. Kalinchuk. On the application of the spectral method of signal Processing in Problems of low-frequency Defectoscopy.

5103	A. V. Cherpakov, A. Dumitrescu, Gh. Zecheru, G. Zekeru, I.A. Parinov, J.-C. Liu, Y.-T. Cheng. Finite Element Modeling of the Stressed State in Pipe with Damage from Two Defects by Restoring Its State with Composite Bandage Patch.
5105	Chih-Feng Yen, Min Yen Yeh, Shun-Hsyung Chang, Zi-Yang Shen and Ruei-Jun Hong. Leakage Currents of SB InP Diode with Ultrathin Al ₂ O ₃ Based Insulator.
5106	V.G. Dneprovski, E.M. Kaidashev, G.Y. Karapetyan. Features of Designs of Ultraviolet Surface Acoustic Wave Sensors, Based on ZnO.
5107	Dwi Harini Sulistyawati, Geri Kusnanto, Puteri Noraisya Primandari. Calculation of the Accuracy of the Malaria Parasite Segmentation Results Using the Hausdorff Distance.
5108	D.D. Fugarov, O. A. Purchina, A.Y. Poluyan, I.D. Tkachuk. Development of the Control Device for Three-phase Pump Motor in the Oil Collection and Treatment System.
5109	D.D. Fugarov, O. A. Purchina, A.Y. Poluyan, I.D. Tkachuk. Monitoring of Normal Operating Modes of DC Systems.
5110	D.D. Fugarov, O. A. Purchina, A.Y. Poluyan, I.D. Tkachuk. Numerical Research of Magnetization Curve of the AC Magnetodielectric Sensor.
5111	A.A. Gorbenko, V.V. Polyakov. Features of Construction of Micro- and Nanoelectronic Devices for Non-invasive Diagnosis.
5112	Jeng-Cheng Liu, Yuang-Tung Cheng, Fu-Tai Wang, Hsien-Sen Hung, Shun-Hsyung Chang. Optimized Adaptive Maximum Power Point Tracking Performances in Photovoltaic.
5113	G.Ya. Karapetyan, V.G. Dneprovskii, I.A. Parinov. Thermoelectric Power in Field-Effect Transistor in Absence of Temperature Gradient When Exposed on It to Sinusoidal Voltage in Circuit with Diodes.
5114	G.Ya. Karapetyan, D. A. Zhilin, V.E. Kaydashev, E. M. Kaidashev. A Sensor Based on Surface Acoustic Wave (SAW) with RFID Tag for Ultraviolet Irradiation.
5115	Khoirul Hikam, Ahmad Habib, Agus Darwanto. Water Controller System Use Microcontroller Arduino and the Application System Based on Visual Basic Ver. 2010 to Control the Water Volume in All Borders.
5116	Yu.V. Klunnikova, S.P. Malyukov, A.V. Sayenko, D.A. Sarychev, V.V. Kitaev. Investigation of Iron Oxide Film on Sapphire Substrate.
5117	V.V. Kosenko, E.E. Kosenko, A.V. Cherpakov. Method for Determining the Strength of Machine Parts.
5118	M. E. Kutepov, G. Y. Karapetyan, V. E. Kaydashev, D. A. Zhilin, E. M. Kaidashev. Enhanced Sensitivity of SAW UV photo-detector Based on Multiple Acoustic Reflections.
5119	A.M. Lerer, P.E. Timoshenko, E.M. Kaidashev, T.Yu. Chernikova, A.J. Emaimo. Refractive properties of two-dimensional photonic crystals formed by ZnO nanorods coated with plasmonic materials.
5120	I.E.Lysenko, O.A. Ezhova. Creation of Parametrizable Model of the Tunnel Micromechanical Sensor Topology.

Poster Session 4: Characterization and Research Method

15-October-2017

1130 – 1310

Chair: Prashant Kumar Jain

4101	I.N. Andryushina, K.P. Andryushin, L.A. Reznichenko. Phase Transition Fatigue in Industrial Material PCR-80.
4102	I.N. Andryushina, K.P. Andryushin, I.A. Verbenko, L.A. Reznichenko. Cyclicity of Electrophysical Parameters in Industrial Materials of PCR-13 and PCR-80.
4103	A.N. Soloviev ^{1,2} , I.A. Hoziaev ² , D.V. Rudoy ¹ , W.-F. Wang ³ , S.-H. Chang ⁴ . Durability of Harmonic Loads Solids from the Positions of the Kinetic Strength Theory.
4104	A.O. Vatulyan, L.I. Parinova. On the Propagation of Elastic Waves along Topographic Waveguides with the Trapezoidal Cross-section.
4105	Boris V. Bondarev. Magnetic Fields in Superconductors. Quantum Levitation of Superconductor.
4106	N. V. Boyev. Application of the Ultrasonic Waves for Detection of Exfoliations between the Solid Inclusions and the Elastic Matrix of a Metamaterial.
4107	A.I. Burkhanov, K.P. Guzhakovskaya, L.I. Ivleva. The Behavior of Nonlinear Dielectric Response in SBN:61 with Modifying Addition Co under the Influence of Optical Range Illumination.
4108	V.V. Dudarev, R.M. Mnukhin. On Vibrations of Inhomogeneous Pre-stressed Piezoelectric Rod.
4137	N.A. Boldyrev, E.V. Glazunova, L.A. Shilkina, L.A. Reznichenko. Structure and Dielectric Characteristics of the Solid Solutions of Ternary System $(\text{Bi}_{1-x-y}\text{Pb}_{x+y})(\text{Fe}_{1-x/2-y}\text{Ti}_y\text{Nb}_{x/2})\text{O}_3$: Part 1.
4109	E.V. Glazunova, N.A. Boldyrev, L.A. Shilkina, L.A. Reznichenko. Structure and Dielectric Characteristics of the Solid Solutions of Ternary System $(\text{Bi}_{1-x-y}\text{Pb}_{x+y})(\text{Fe}_{1-x/2-y}\text{Ti}_y\text{Nb}_{x/2})\text{O}_3$: Part 2.
4110	E.V. Glushkov, N.V. Glushkova, A.A. Eremin, A.A. Evdokimov. Effect of Elastic Inclusions and Surface Irregularities on the Waveguide Properties of Layered Structures.
4111	E.V. Glushkov, N.V. Glushkova, O.M. Miakisheva. Ultrasonic Air-Coupled Non-Destructive Evaluation and Characterization of Materials.
4112	L.V. Grigoryev, V.G. Nefedov, A.V. Mikhailov, O.V. Shakin. The Investigation of Photoelectrical and Optoacoustic Properties of ZnO – Ferroelectric Structure.
4113	L.A. Igumnov ¹ , I.V. Vorobtsov ¹ , A.N. Petrov ² . Three-dimensional Boundary-Element Modeling of Transversal Vibrations of a Poroelastic Plate.
4114	L.P. Ichkitidze, A.Yu. Gerasimenko, V.M. Podgaetsky, S.V. Selishchev. Laser Stimulation of the Conductivity of Nanomaterial Films.
4115	I.L. Jityaev, A.M. Svetlichnyi. Field Emission in Disk-shaped Graphene/SiC Nanostructures.
4116	G.Ya. Karapetyan, M.E. Kutepov, V.E. Kaydashev, E.M. Kaidashev. A Study of Reflections of the SAW from IDT, which is Loaded on Changing under the Action of UV Radiation Impedance of Zinc Oxide Film.

4118	D.A.Khakhulin, R.V.Tominov, V.A.Smirnov, O.A.Ageev. Morphology Dependence of Resistive Switching in ZnO-Based Nanocomposite.
4119	G.M. Konstantinov, N.A. Shvetsova, I.A. Shvetsov, E.I. Petrova, A.N. Rybyanets. Crystalline Structure, Physical Properties and Application Features of PZT-Based Ferroelectric Ceramic with Controlled Porosity.
4120	I. V. Malyshev, K. A. Fil, A. A. Goncharova. Study of the Frequency and Phase Response of Small-Signal Conductivity of Bulk Semiconductors with Hot Carriers in Direct and Alternating Electric Fields.
4121	Mikhail V. Golub, Alisa N. Shpak. Mathematical Modelling and Numerical Analysis of Lamb Wave Excitation by Partially Debonded Piezoelectric Transducers Attached at the Surface of a Layered Structure.
4122	I.P. Miroshnichenko, I.A. Parinov. On Some Basic Directions of Further Development of Optical Interference Measurement Means of Control Object Surface Displacements.
4124	E.N. Sidorenko, V.G. Smotrakov, V.V. Eremkin, V.G. Gavrilyatchenko, I.I. Natkhin, V. P. Shevtsov. The Absorption of Microwave Energy by Piezoceramics with Anomally High Piezomoduli.
4125	A.N. Soloviev, A.V. Cherpakov, I.A. Parinov, V.A. Chebanenko, E.V. Rozhkov, C.-D Yang, J.-P. Wang. Approbation of Experimental Vibration Diagnostics of Damages to Truss Structure with Defects.
4126	A.N. Soloviev, I.A. Parinov, A.V. Cherpakov, I.O. Egorochkina, E.A. Shlyakhova, A.G. Zarovny, Shih-Fong Chao, Y.-M. Liu. Development of the Algorithm for Identification of Defects on Restoration of Poles of Power Lines during Vibrational Diagnostics.
4127	V.Yu. Topolov, A.N. Isaeva. High Piezoelectric Sensitivity and Hydrostatic Parameters of Novel Lead-free 1–3-type Composites with Two Single-crystal Components.
4128	V.Yu. Topolov, A.N. Isaeva, C.R. Bowen. Piezoelectric Anisotropy and Hydrostatic Response of 1–2–2 Composites Based on Domain-engineered Lead-free Single Crystals.
4129	Yu.N. Zakharov, N.S. Filatova, M.A. Bunin, V.A. Chebanenko, I.A. Parinov, A.V. Pavlenko, E.V. Rozhkov, E.S. Rodinin, I.P. Rayevsky. Investigation of the Surface Electric Potential, Internal Electric Displacement Field, Pyro- and Piezoelectric Effects in Unpolarized Piezoceramics with a Stationary Gradient of the Deformation in Near-electrode Layers.
4130	D.K. Nadolin, A.V. Nasedkin, A.A. Nasedkina, P.A. Oganesyanyan, A.N. Soloviev. Models of Porous Piezocomposites with 3-0 and 3-3 Connectivity Types in ACELAN Finite Element Package.
4195	A. V. Pavlenko, A. V. Nazarenko, T. N. Sorokun. Dielectric Characteristics Effect in PbFe ₂ /3W ₁ /3O ₃ Ceramics. (Characterization)
4196	A. V. Pavlenko, V. G. Smotrakov, V. V. Eremkin. Dielectric Characteristics of 0.95PFN – 0.05BFO Single Crystals. (Characterization)
4197	M.N. Palatnikov, V.A. Sandler, N.V. Sidorov, O.V. Makarova, D.V. Manukovskaya. Methods of Rise in Unipolarity of Strongly Doped Lithium Niobate Crystals without External Electric Field.

4199	J.Y. Zubarev, I.A. Verbenko, L.A. Reznichenko, O.N. Razumovskaya. Anomalies in the Dielectric Properties of Compounds and Solid Solutions of Binary System $(1 - x)\text{NaNbO}_3 - x\text{Ca}_2\text{Nb}_2\text{O}_7$ with $0.00 \leq x \leq 1.00$ in the Range 300– 450 K: “water dance”
4203	A.N. Soloviev, P.A. Oganessian Applied Theory of the Vibration of Inhomogeneously Polarized Axisymmetric Bimorph Piezoelements.

Poster Session 5: Materials

15-October-2017

1415 – 1515

Chair: Neeraj Kumar Jaiswal

1101	K.P. Andryushin, I.N. Andryushina, L.A. Reznichenko. Ferro-soft Ceramic under Thermal Impacts: Features of Piezoelectric Properties.
1102	Achmad Daengs GS, Mahjudin, Muaffaq A. Jani. Planning and Inventory Controlling of Raw Material in Efforts to Avoid Lack of Raw Materials (Case Study in Industrial Companies of Surabaya).
1103	K.P.Andryushin,.I. Bondarenko, V.A. Chernishkov, I.N. Andryushina, I.A. Verbenko, L.A. Reznichenko. Self-destruction of Multiaxial and Uniaxial Ferroelectric Ceramics.
1104	M.V.Belodedov, L.P. Ichkitidze. Modeling of Thin Strips of High-Temperature Superconducting Ceramics.
1105	N.I. Buravchuk, O.V. Guryanova, M. A. Jani, E. P. Putri. Mineral Additives from Technogenic Raw Materials.
1106	A.A. Geldash, V.N. Dzhuplin, V.S. Klimin. The Study of Junction Properties in the Structure of Si/ZnO.
1107	Harjo Seputro, Ismail, Ivan A. Parinov, Shun-Hsyung Chang. Superplasticity of Bottom Ash Reinforced Aluminum Metal Matrix Composite.
1108	Himansu Sekhar Nanda, Terry W. J. Steele. On Demand to Tissue Adhesives for Emerging Medical Applications.
1109	L.P. Ichkitidze, A.Yu. Gerasimenko,V.M. Podgaetsky, S.V. Selishchev, A.A. Dudin, A.A. Pavlov, Yu.P. Shaman, D.A. Prilutsky. Investigation of Composite Nanomaterial Layers.
1110	I. V. Lisnevskaya, I. A. Bobrova, K. V. Myagkaya. Increased Magnetoelectric Efficiency of the $\text{Y}_3\text{Fe}_5\text{O}_{12}/\text{Ba}_{1-x}\text{Pb}_x\text{TiO}_3$ Particulate Composites.
1111	M.A.Lugovaya, E.I.Petrova, G.M.Konstantinov, A.N.Rybyanets. Microstructural Features and Electrophysical Characteristics of “Ceramics – Crystal” Ceramomatrix Composites.
1112	N.A. Lukinova, A.A. Matrosov, D.A. Nizhnik, I.A. Serebryanay, Yu.V. Terekhina. Modeling of the Stress-Strain State of the Wall Building Materials when Tested for Axial Compression.
1113	D.I. Makariev,M.A. Lugovaya, A.N. Reznichenko, A.N. Rybyanets.The Possibility of Using Mixed Composites of the "Piezoceramic – Polymer" System as Digital Materials for Additive Technologies.
1114	M.V. Savoskin, A.N. Vdovichenko, E.V. Raksha, Yu.V. Berestneva, V.Yu. Vishnevskij, A.P. Prudchenko, K.P. Andryushin. Graphite Nitrate Cointercalated Compounds – Promising Source of Carbon Nanomaterials.

1115	A.V. Shevchuk, S.P. Kubrin, N.M. Novikovskiy, A.B. Nazarenko, Yu.V. Kabirov, A.G. Rudskaya, M.F. Kupriyanov. Structure and Magnetic Properties of $(1-x)\text{BiFeO}_3 - x\text{PbFeO}_3$ Solid Solutions.
1116	M.S. Shimanyanga, Yu.V. Kabirov, A.G. Rudskaya, M.F. Kupriyanov. Structure and Properties of $A_3\text{NbO}_7$ ($A = \text{La, Bi, Y}$) Compounds.
1117	S.P. Shpanko, E.N. Sidorenko, V.B. Shirokov, E.A. Ashikhina, O.N. Zhukovskaja, H. R. Lekhterov. Formation Conditions and Protective Properties of Phase Films on the Base of New Organic Compound.
1118	M.S. Skripnichenko. Electrical Properties and Structural Parameters of Lanthanum Manganites.
1119	V.V. Sviridov, E.I. Shemchenko, A.V. Pavlenko. Research of the $\text{CN}_x : \text{Eu}_y\text{O}_z$ Layer.
1120	Z.S. Umkhaeva. Thermal Expansion in Magnetically Ordered Alloys $\text{Tb}_{1-x}\text{Zr}_x\text{Fe}_2$.
1121	V.N. Varavka, O.V. Kudryakov, I.Yu. Zabayaka, V.A. Irkha. Mechanics of Destruction of Metal-Ceramic Nanocomposite Coatings during Liquid-Droplet Impact Loading.
1122	Vitaly Yu. Topolov, Rajeev Ranjan, Ajay Kumar Kalyani, Kumar Brajesh. Domain Structures and Phase Contents in Lead-free Ferroelectric Solid Solutions near Morphotropic Phase Boundaries.
1123	P.Yu. Voloshchenko, Yu.P. Voloshchenko. Fundamentals of the Theory of the Composite Microwave Material, Used in Coherent Nanoelectronics Technology.
1124	V.B. Zelentsov, I.A. Lubyagin, B.I. Mitrin, S.M. Aizikovich. Materials and Structures with Smart Protection from Occurrence of Thermoelastic Instability and Other Malfunctions.
1125	S. V. Zubkov. Ferroelectric Properties and Crystal Structure of Mixed-layer $\text{Bi}_7\text{Ti}_{4+x}\text{W}_x\text{Nb}_{1-2x-0.1}\text{V}_{0.1}\text{O}_{21}$ ($x = 0.0, 0.1, 0.2, 0.3, 0.4$) Ceramics.
1126	S. V. Zubkov. Ferroelectric Properties and Crystal Structure of Mixed-layer $\text{Bi}_{7-x}\text{Y}_x\text{Ti}_4\text{NbO}_{21}$ ($x = 0.0, 0.2, 0.4, 0.6$) Ceramics.
1127	S. V. Zubkov. Ferroelectric Properties and Crystal Structure of Perovskite-like Solid Solutions $\text{Bi}_{6-x}\text{Sr}_x\text{Ti}_{2-x}\text{Ta}_{2+x}\text{O}_{18}$ ($x = 0.0, 0.4, 0.8, 1.2, 1.6, 2.0$).
1128	Muslimin Abdulrahim, Herlina, Virhanty Ernita Sukma Pratiwi. Microstructure Modelling of Bottom Ash Reinforced Aluminum Metal Matrix Composite with Stress Relaxation.
1129	A. G. Abubakarov, Kh. A. Sadykov, I. A. Verbenko, L. A. Reznichenko. Modification Effects of Multi-component Ferro-active Media Based on Sodium-Kalium Columbate.
1130	V.I. Pakhomov, S.V. Braginez, O.N. Bahchevnikov, D.V. Rudoy. Mathematical Model of Extruding Biopolymer Material
1131	S.I. Raevskaya, S.P. Kubrin, V.V. Titov, A.V. Pushkarev, N.M. Olekhovich, Y.V. Radyush, H. Chen, C.-C. Chou, M.A. Malitskaya, I. P. Raevski, V.V. Stashenko, D.A. Sarychev, I.N. Zakharchenko. Effect of Cr-Doping on Dielectric and Magnetic Properties of BiFeO_3 and $\text{Pb}(\text{Fe}_{1/2}\text{Sb}_{1/2})\text{O}_3$ Multiferroics.

1202	A.N. Rybyanets, G.M. Konstantinov, N.A. Shvetsova, D.I. Makariev. Extreme Electromechanical Characteristics and Microstructural Features of Ferroelectric Piezoceramics Based on Lead Titanate.
1203	A.N. Rybyanets, M.A. Lugovaya, L.A. Reznichenko, N.A. Shvetsova. Complex Electrophysical Parameters of Lead-Free Piezoelectric Ceramics Based on Lithium-Sodium Nionates Solid Solutions
1204	N.A. Shvetsova, G.M. Konstantinov, M.A. Lugovaya, A.N. Rybyanets. Crystal Structure and Microstructure Features of Ceramic Matrix Composites.
1205	H. T. Tjendani, H. Widhiarto. Material Innovation to Road Construction in Implementing the Performance-based Contract in Indonesia.
1208	Nurul Rochmah, Bantot Sutriyono. Using Eggshell as an Additive in Concrete Mixes

Poster Session 6: Characterization and Research Method

16 October 2017

1030 – 1130

Chair: S.K. Rathore

4131	M.N. Palatnikov, O.B. Shcherbina, V.V. Efremov, S.M. Masloboeba. Influence of Charge Disperse on Structure and Mechanical Characteristics of Ceramic Lithium Niobate.
4132	I.A. Parinov, A.V. Cherpakov, V.A. Chebanenko, E.V. Rozhkov, S.-H. Chang, C.-F. Lin, Development of Laboratory Setup and Computer Software for Rapid Evaluation of Piezogenerator Properties.
4134	M.M. Avilova, V.V. Petrov, T.V. Semenistaya, N.K. Plugotarenko. The Study of Selective Gas-sensitive Polyacrylonitrile Films Modified with Compounds of Cobalt in Dry and Wet Environment Using Molecular Modeling.
4135	I.V. Bogachev, R.D. Nedin, A.O. Vatulyan. On the Projection Method of Identification of Inhomogeneous Properties of Timoshenko Plate.
4136	N.A. Boldyrev, E.V. Glazunova, L.A. Reznichenko. Influence of the MnO ₂ Modification on the Dielectric Characteristics of the Binary System of Solid Solutions $(1-x)\text{BiFeO}_3-x\text{BaTiO}_3$.
4138	Boris V. Bondarev. Matrix of Density. Distribution Function of Electrons in Atom. New Calculation of Energy Levels of Electrons.
4139	E.I. Bublikov, V.I. Kulinich, V.V. Kolomiets, E.S. Lialko, E.E. Shcherbakova. Interrelation of the Crystal and Magnetic Structure of Iron Nanowires and Iron-Cobalt Alloy.
4141	Budi Witjaksana. Additional Fiber Steel in Concrete Mixes: Review of Strong Pressure, Tensile Strength of Concrete.
4142	M.I. Chebakov, D.A. Danilchenko, A.A. Lyapin, E.M. Kolosova. Contact Interaction for Bodies of Complex Shape Taking into Account Wear.
4144	V.A. Eremeyev ^{1,2} , A.V. Nasedkin ¹ . Mathematical and Finite Element Modeling of Harmonic Vibrations of Nanosized Piezoelectric Bodies with Coupled Surface Effects.
4145	Ie.Ie. Gorbenko, E.P. Troitskaya, E.A. Pilipenko, I.A. Verbenko, Yu.I. Yurasov. Third-order Fuchs Elastic Constants and the Pressure Derivatives of the Second-order Elastic Constants for Compressed Ne and Ar in the Model of Deformable Atoms.

4146	L.V.Grigoryev, A.A. Gorbachev, A.V. Mikhailov. The Investigation of Optical and Dielectric Properties of BaTiO ₃ Doped by Rare-Earth Ion in Teragertz Range.
4147	L.A. Igumnov, A.A. Ipatov, A.A. Belov. Results of Computer Modelling of a Composite Poroviscoelastic Prismatic Solid Dynamics.
4148	M.V. Ilina, A.V. Guryanov, O.A. Ageev. The Study of Internal Electric Field of Strained Carbon Nanotubes for Advanced Memory Elements.
4149	V. V. Ilyasov, I. V. Ershov, I. G. Popova. Interface Hydrogenation-Induced Adsorption and Electronic Structure of Graphene on MnO(111).
4150	G. Iovane, A.V. Nasedkin. New Mathematical and Finite Element Models with Dissipations for Multiferroic Media with Voids.
4151	S.V. Khasbulatov, A.A. Pavelko, L.A. Reznichenko, L.A. Shilkina, G.G. Gadjiev, A.G. Bakmaev, Z.M. Omarov, V.A. Aleshin. Correlation of Structural, Mesa Structural, Dielectric and Thermophysical Properties of the Bi _{1-x} Yb _x FeO ₃ Multiferroics.
4152	S.V. Khasbulatov, A.A. Pavelko, L.A. Reznichenko, L.A. Shilkina, G.G. Gadjiev, A.G. Bakmaev, Z.M. Omarov, V.A. Aleshin. The Phase Composition, Grain Structure, Dielectric and Thermophysical Properties of the Bi _{1-x} LuxFeO ₃ Multiferroics.
4153	E. Kirillova, W. Seemann, M. Shevtsova. Modeling of Contact Stresses for Condition Monitoring Using Finite-Elements Method and Semianalytical Methods.
4154	G.M. Konstantinov, Y.B. Konstantinova, N.A. Shvetsova, A.N. Rybyanets. Peculiarities of the Glass-Dipole State of PZT-Based Ferroelectric Ceramics at the Influence of Temperature and Electric Field.
4155	A.B. Kudimova, D.K. Nadolin, A.V. Nasedkin, P.A. Oganessian, A.N. Soloviev. Finite Element Homogenization Models of Bulk Mixed Piezocomposites with Granular Elastic Inclusions in ACELAN Package.
4156	A. R. Lebedinskaya. X-Ray Study and the Computer Elaboration of Structure Order/Disorder in Pb-Containing Complex Perovskites with the Relaxor Ferroelectrics Properties at Low Temperatures.
4157	I. V. Malyshev, K. A. Fil, A. A. Goncharova. The Behavior Analysis of the Current Density Hot Carriers Variable Component in Semiconductors of AIIIBV Type.
4158	I.V. Malyshev, K.A. Fil, N.V. Parshina. Methods of the Dispersion Type Accounting on Output Parameters of AIIIBV Type Semiconductors in Strong Electric Fields.
4159	I.V. Malyshev, K.A. Fil, N.V. Parshina. The Dependence of the Diffusion Coefficient in Semiconductor Materials under the Influence of the External Strong Magnetic and Electric Fields.
4160	Mikhail V. Golub, Anders E. Boström, Olga V. Doroshenko. Modelling of Elastic Wave Propagation through Damaged Interface via Effective Spring Boundary Conditions.
4161	L. A. Reznichenko, L. A. Shilkina, S. I. Dudkina, T. V. Krasnyakova. Binary, Ternary and Four-component Systems Based on Sodium Niobate: phase Diagrams of States, the Role of Defectiveness in the Formation of Properties.

4162	A.N. Savkin, D.S. Denisevich, V.P. Bagmutov, I.N. Zakharov, A.A. Sedov. Numerical Study of Crack Initiation in Surface Hardened Ti6Al2V Alloy Based on the Residual Stress Analysis.
4163	L. A. Shilkina, S. I. Dudkina, L. A. Reznichenko, O. N. Razumovskaya, V. A. Gritskikh. Features of the Phase Diagrams of the States and Macroresponses in Systems Based on Sodium Niobate.
4164	L. A. Shilkina, S. I. Shevtsova, M. V. Talanov, P. G. Grin', L. A. Reznichenko, S. I. Dudkina. Isomorphism in the Binary System $Pb_{1-x}Ba_xTiO_3$ is Possible?
4165	B.K. Abdulvakhidov, S.A. Sadykov, K.G. Abdulvakhidov, M.A. Sirota, E.I. Sitalo, I.P. Dmitrenko, I.V. Mardasova, M.A. Vitchenko, E.N. Ubushaeva. Dielectric and Magnetic Properties of $(1-x)PbMn_{1/3}Nb_{2/3}O_3 - xPbTiO_3$ Solid Solutions.

Poster Session 7: Characterization and Research Methods

16 October 2017

1145 - 1305

Chair: Pavan Kumar Kankar

4166	L. A. Reznichenko, L. A. Shilkina, S. I. Dudkina, V. A. Gritskikh. Physical Effects in Niobates of Sodium and Lithium, due to Their Crystal-Chemical Peculiar Properties.
4167	A.S. Yudin. The Development of Plastic Forming Models for Axisymmetric Shells.
4168	Muralimohan Cheepu, V. Muthupandi, B. Srinivas, Woo Seong Che. Interfacial Microstructures and Characterization of the Titanium – Stainless Steel Friction Welds Using Interlayer Technique.
4169	E.N. Sidorenko, V.G. Gavrilyatchenko., I.I. Natkhin, T.I. Debelova, D.V. Kolodko. The UHF Energy Absorption Spectra of Hard Ferroelectric Piezoceramics PCR-13.
4170	E.N. Sidorenko, S.P. Shpanko, V. B. Shirokov, N. V. Voitenko, A.V. Mikhailishin. Physicochemical Properties of Phase Films on Base of Organic Compound Modified by Bromine Anions.
4171	A.A. Eremin, R. Lammering. Propagation and Attenuation of Elastic Guided Waves in Laminate Fiber-Reinforced Composite Plates.
4172	Gautam Mrinal, S. K. Rathore. Volume Fraction Optimization under Steady State Heat Conduction in Ni-Al ₂ O ₃ FGM Composites by Minimizing the Residual Stresses.
4173	T.E. Gerasimenko. Computational Modeling of Domain Switching Effects in Ferroelastic Materials Using Energy Criteria.
4174	V.A. Gritskikh, A.L. Davidova, S.V. Kara-Murza, N.V. Korchikova, T.V. Krasnyakova, A.A. Tikhii, A.V. Pavlenko, B.Ya. Sevastyanov, V.V. Burkhovetsky. Complex Method of Determining the Optical Parameters of Transparent Films on Transparent Substrates Using the Results of Ellipsometric and Spectrophotometric Measurements.
4175	V.A. Gritskikh, K.M. Zhidel, S.V. Kara-Murza, A.A. Tikhii, N.V. Korchikova, I.V. Zhikharev, Yu.M. Nikolaenko. Phenomenological Method for Estimation of Optical Parameters of Films of Substituted Lanthanum Manganites.

4176	L.P. Ichkitidze, V.A. Petuhov, A.Yu. Gerasimenko, V.M. Podgaetsky, S.V. Selishchev, A.A. Dudin, A.A. Pavlov, Yu.P. Shaman. Nanocomposite Layers Based on the Carbon Nanotubes for Tensoresistors.
4177	L.A. Igumnov, I.P. Markov. A Boundary Element Approach for 3D Transient Dynamic Problems of Moderately Thick Multilayered Anisotropic Elastic Composite Plates.
4178	G.M. Konstantinov, N.A. Shvetsova, A.N. Reznichenko, E.I. Petrova, A.N. Rybyanets. The Role of Structural Defects in the Formation of Physical Properties of Ferroelectric Ceramics Based on PZT Solid Solutions.
4179	I.V. Lisnevskaya. The Effect of Chemical Interactions on the Properties of Multiferroic Lanthanum Manganite-Based Particulate Composites.
4180	D.B. Mahadik. Elastic and Superhydrophobic Silica-poly HIPE Composite Networks for Corrosion Resistant Thermal Insulation.
4181	I.P. Miroschnichenko. Investigation of the Features of Stress-Strain State in Layered Cylindrical Constructions, Manufactured of Transverse-Isotropic Materials, under Pulse Impact.
4182	Kh. A. Sadykov, I. A. Verbenko, L. A. Reznichenko. Phase Formation and Composition – Structure – Property Relationships in Ferroactive Materials Based on Sodium Columbate and Bismuth Ferrite.
4184	V.G. Safronenko. The Influence of Structural Parameters and Boundary Conditions on the Sound Radiation of the Cylindrical Shell of Fibrous Composite Material with Polymer Matrix.
4185	V.P. Sakhnenko ¹ , Yu.N. Zakharov ¹ , I.A. Parinov ² , N.S. Filatova ⁴ , I.P. Raevsky ¹ , V.A. Chebanenko ³ , E.V. Rozhkov ² , A.V. Pavlenko ³ , M.A. Bunin ¹ . Unipolarity of Unpolarized Ferroelectric Ceramic Plates with Electrodes of Various Metals on Opposite Surfaces.
4187	J.Y. Zubarev, L.A. Reznichenko, O.N. Razumovskaya. Effect of Temperature and the Alternating Electric Field Frequency on the Dielectric Characteristics of Solid Solutions and Compounds Formed in the (1-x)NaNbO ₃ – xCa ₂ Nb ₂ O ₇ System.
4188	A. V. Pavlenko, S. V. Biryukov, V. M. Mukhortov, D. B. Strukov, A. P. Kovtun. Relaxation of polarized state in the Ba _{0.5} Sr _{0.5} Nb ₂ O ₆ /(001)Si thin films.
4189	E.I. Petrova, S.A. Scherbinin, A.N. Reznichenko, A.N. Rybyanets. Anomalies in the Electrophysical Parameters of the Transparent Ferroelectric Piezoceramics PLZT in the Vicinity of the Diffused Phase Transition.
4190	E.I. Sitalo, V.G. Gavriyachenko, G.M. Akbaeva, E.M. Panchenko, A.E. Sitalo. Relaxation Polarization in Multicomponent Ceramics Based on PZT.
4191	P.Yu. Voloshchenko, Yu.P. Voloshchenko. Macromodeling of High-Frequency Microchip Material Structure.
4192	P.Yu. Voloshchenko, Yu.P. Voloshchenko. Macromodeling of Microwave Intelligent Material for Object and Information Security Systems.
4193	A. Zhilenkov, S. Cherniy, A. Nyrkov, S. Sokolov. Improved Mathematical Model of Electromechanical Installations Working in Parallel on a High Power Grid.
4194	J.Y. Zubarev, L.A. Shilkina, O.N. Razumovskaya, S.I. Dudkina, Krasnyakova T.V., Mitchenko S.A., L.A. Reznichenko. Structure and Electrical

	Conductivity of the Layered Compounds Forming in the System $(1 - x)\text{NaNbO}_3 - x\text{Ca}_2\text{Nb}_2\text{O}_7$ ($0.25 \leq x \leq 1.00$).
4205	I.V. Kolesnikov, N.A. Myasnikova, D.S. Manturov, Ph.V. Myasnikov. The Study of Tribological Properties of Composites Based on Phenylone and Hybrid Filler.
4209	P.G. Ivanochkin, S.A. Danilchenko, E.S. Novikov, D.S. Manturov. Study of Physical, Mechanical and Tribological Properties of Nanocomposites Based on Oil-Filled Polymers.
4214	A.N. Savkin, A.A. Sedov, K.A. Badikov, M.A. Klimov, A.O. Doluda. The Interrelation of the Character Variable Loading with the Crack Growth in an Aluminum Alloy.
4216	A .G. Shpenev. Model of Composite Wear with Abrasive Particles.
4223	A.V. Nasedkin, A.A. Nasedkina, A.S. Kornievsky. Modeling of Nanostructured Porous Piezoceramics with Membrane and Volumetric Elements Taking into Account Surface Effects.(Characterization)

Poster Session 8: Applications & Energy Harvesting

16 October 2017

1420 – 1530

Chair: Erni Puspanantasari Putri

5121	A.A. Rezvan, V.S.Klimin. Research of the Resistive Gas Sensor's Sensing Element Based on Graphene Films.
5124	T. V. Semenistaya, A. V. Ivanenko. Perspectives for Application of Polyacrylonitrile Thin Film Materials.
5125	Shih-Fong Chao, Che-You Kuo. Wideband Bandpass Filter with Dual Notched Bands Based on Short-Stub Loaded Stepped Impedance Resonators.
5126	Sujito, Ren-You Liu, Rou-Zhen He, Te-Jen Su, Hung-Yu Wang. Design of a Three-stage Nested-Miller CMOS Operational Transconductance Amplifier.
5127	Supardi, Djoko Sasono. Hydraulic Analysis of Clean Water Distribution System in the Rural Area of Nogosari Pacitan.
5128	Yu. I. Yurasov, A. V. Nazarenko, I. A. Verbenko, V.V Gogenko. Forecasting the Properties of Vibration Sensors Based on the Lead Free Piezoceramics.
5129	A. Zhilenkov, D. Denk. The Use of Inertial MEMS Modules in the Human-Machine Interface of the System of Human Postures Recognition and Movements Capturing.
5130	A. L. Nikolaev, A. S. Kamencev, N. V. Lyanguzov, V. V. Petrov, E. M. Kaidashev. Design and Study of High Performance CO Sensors Based on ZnO Nanorods.
5131	I.V. Pisarenko, E.A. Ryndin. Model of Time wise Electron Drift Velocity Overshoot in High-Speed AIIIbV Photodetectors.
5132	V.V. Polyakova. The Method of Local Anodic Oxidation of Silicon to Create Microfluidic Elements Using Atomic Force Microscope.
5133	A.S. Bagdasaryan, V.G. Dneprovski, G.Y. Karapetyan, I.A. Parinov. To Issue on High Power Surface Acoustic Wave Filters.
5136	V.S. Klimin, E.A. Vorobchenko. Technological Features of the Formation of Field Emitters Based on Carbon Nanostructures Perpendicularly Oriented to the Substrate Using Thermodynamic Analysis of Growth Structures.

5137	Levan P. Ichkitidze, Dmitry V. Telishev, Sergei V. Selishchev. Possibilities of Using superconducting Sensors in magnetocardiography.
5138	E.A. Moguchih, A.A. Alekseenko, I.N. Novomlinskiy. Study of Stability during Stress Tests under Various Conditions of Platinum-containing Electrocatalysts for Low-temperature Fuel Cells.
5139	A.A. Rezvan, V.S.Klimin. Investigation of Plasma Enhanced Chemical Vapor Deposition as the Method of Obtaining Graphene Films.
5142	S. A. Shcherbinin, I.I.Lukyanov, A.V.Nasedkin, I. A.Shvetsov, A.N.Rybyanets. Finite Element Simulation and Experimental Study of Focusing Cylindrical Piezoelectric Transducers.
5143	I.A. Shvetsov, P.A. Astafiev, M.O. Moisa, S.A. Scherbinin, A.N. Rybyanets. Numerical Simulation and Optimization of Acoustic Fields and Designs of High Intensity Focusing Ultrasound Transducers.
5144	Ichlas Wahid, Maula Nafi. Study of Bottom Ash Reinforced Aluminum Metal Matrix Composite for Automotive Parts.
5145	V.V. Kosenko, E.E. Kosenko, A.V. Cherpakov. Evaluation of Methods to Improve the Reliability of Machines.
5146	Levan P. Ichkitidze, Dmitry V. Telishev, Michael V. Belodedov. Magnetic Field Sensor Based on the High-Temperature Superconducting Ceramic.
5147	Yu. I. Yurasov, A. V. Nazarenko, I. A. Verbenko, L. A. Reznitchenko, V.V Gogenko. Creation of Technical Systems with the Use of High-Temperature Lead Free Piezoceramics.
5149	A.A. Geldash, V.S. Klimin, V.N. Dzhuplin. Comparison of Electric Potential Distributions in the Junction Regions on Films Deposited by the MBE Method and PLD.
5150	A.N. Soloviev, I.A. Parinov, A.V..Cherpakov, I.O. Egorochkina., E.A. Shlyakhova, A.G. Zarovny. Simulation of Oscillations in Power Transmission Line Support with Symmetrical Fracture of Protective Layer of Concrete at the Base.
5151	A.N. Soloviev, B.V. Sobol, P.V. Vasiliev, J.-K. Wu, W.-L. Hong, M.-Y. Yeh. Research of the Magnetic Characteristics of the Pipes for the Possible Defects and Pre-stressed Zones Identification.
5152	B. Srinivas, Muralimohan Cheep, Woo Seong Che. Analysis of the Effects of Drilling Hole in the Structural Steel Weldment.
5153	Tony Hartono Bagio, Julistyana Tistogondo, Erwin Susanto, Risma Marleno. The Impact of Discontinue Casting for Strength of Concrete Beam.
5154	Tony Hartono Bagio, Julistyana Tistogondo, Risma Marleno. Determination of Dimensions of Footing Foundation with Axial Load and Biaxial Bending Moments Using Sextic Equation.
5202	A.N. Rybyanets, D.I. Makariev. Piezoactive and Ultrasonic Reverse Osmosis, Ultra- and Microfiltration Membranes with Improved Selectivity and Productivity
5203	N.A.Shvetsova, I.A.Shvetsov, S.A.Scherbinin, A.N.Rybyanets. New Methods and Designs of Focusing Piezoelectric Transducers for Ultrasonic Diagnostics and Therapy.

5205	Cheng Ting Chou, Chih Chin Yang, Shun Hsyung Chang, Jia Wei Zhang, Cheng Yun Tu. An Impedance Type Relative Humidity Sensing Device with Two-terminal Schottky Characteristic.
2101	S. M. Afonin. Coded Control of Piezoactuator of Nano- and Microdisplacement for Mechatronics Systems.
2102	E.V. Rozhkov, V.A. Chebanenko, I.A. Parinov, Yu. N. Zakharov. Experimental Investigations of Piezoelectric Generators of Two Types: Stack and Cantilever.
2103	A.N.Soloviev, V.A. Chebanenko, I.A. Parinov, E.V. Rozhkov. Semi-analytical Modeling of Stack Piezoelectric Generator under Impulse Mechanical Loading.
2104	A.N. Soloviev, I.A. Parinov, A.V. Cherpakov, V.A. Chebanenko, E.V. Rozhkov, L.V. Duong. Analysis of the Output Characteristics of Piezogenerator with Proof Mass.
2105	A.N. Soloviev, I.A. Parinov, A.V. Cherpakov, V.A. Chebanenko, E.V. Rozhkov, L.V. Duong. Estimation of the Characteristics of the Cantilever Type Piezoelectric Generator with Proof Mass at Pulse Load.
2106	Ahmad Ridho'i. Surface Contamination of the Solar Cell Affects the Conversion of Solar Energy to Electrical Energy.



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