

NATIONAL ACADEMY OF SCIENCES OF BELARUS

INSTITUTE OF TECHNICAL ACOUSTICS
OF NATIONAL ACADEMY OF SCIENCES OF BELARUS

POLOTSK STATE ECONOMIC COLLEGE

INTERNATIONAL COORDINATING COUNCIL
FOR PHYSICS OF STRENGTH AND PLASTICITY OF MATERIALS

INSTITUTE OF SOLID STATE PHYSICS OF RUSSIAN ACADEMY OF SCIENCES

MOSCOW INSTITUTE OF ELECTRONICS AND AUTOMATION RADIO ENGINEERING -
RUSSIAN TECHNOLOGICAL UNIVERSITY



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Dr. Natallia N. Poddubnaya, Vitebsk, Belarus

CONFERENCE PROGRAM

September 24, 2019, Tuesday

- 08:00-08:30 Registration of the participants in the lobby of the Hotel «Luchesa», Prospect Stroiteley, 1
- 08:30-10:30 Delivery of the conference participants to Polotsk
- 11:00-13:00 **Conference Visiting Session at the Polotsk State Economic College**
- 13:00-14:00 **Lunch**
- 14:00-18:00 **Polotsk sightseeing tour**
- 18:00-20:00 Delivery of the conference participants to the Hotel «Luchesa», Prospect Stroiteley, 1

September 25, 2019, Wednesday

- 08:30-09:30 Registration of the participants in the lobby of the Hotel «Luchesa», Prospect Stroiteley, 1
Interview with local media reporters
- 09:30-10:00 **Opening ceremony**

Plenary talks (time limit 30 min)

Chairpersons:

Prof. Jūras Banys

Dr. Dmitry D. Khalyavin

- 10:00-10:30 A.M. Glazer
LOCAL VERSUS LONG-RANGE STRUCTURE IN LEAD ZIRCONATE-TITANATE
Prof. Anthony M. Glazer, Emeritus Professor of Physics, Clarendon Laboratory, University of Oxford, Oxford, United Kingdom
- 10:30-11:00 D. Jablonskas, S. Svirskas, S. Balciunas, J. Macutkevici, S. Rudys, R. Grigalaitis, S. Lapinskas, J. Banys
MICROWAVE AND THZ CHARACTERIZATION OF CERAMICS
Prof. Jūras Banys, President of Lithuanian Academy of Sciences, Faculty of Physics, Vilnius University, Vilnius, Lithuania
- 11:00 -11:30 D.D. Khalyavin
MAGNETO-ORBITAL TEXTURE IN THE PEROVSKITE MODIFICATION OF Mn_2O_3
Dr. Dmitry D. Khalyavin, Crystallography Instrument Scientist, ISIS Facility, Rutherford Appleton Laboratory, Didcot, Oxford, United Kingdom
- 11:30-11:45 **Coffee break**

Poster presentations

Chairpersons:

Dr. Alexander V. Sadovnikov

Dr. Leonid Yu. Fetisov

11:45-12:15

N.M. Olekhnovich, Yu.V. Radyush, A.V. Pushkarev, I.P. Raevsky, V.V. Titov, S.I. Raevskaya, M.A. Malitskaya
STRUCTURAL CHARACTERISTICS AND DIELECTRIC PROPERTIES OF PEROVSKITE SYSTEM OF SOLID SOLUTIONS $\text{Bi}_{1-x}\text{Pb}_x\text{Fe}_{1-x/2}\text{Sb}_{x/2}\text{O}_3$, SYNTHESIZED UNDER HIGH PRESSURE

A.V. Kalgin, S.A. Gridnev
ELECTRIC PROPERTIES OF THE PARTICULATE MAGNETOELECTRIC COMPOSITE $(x)\text{Mn}_{0,4}\text{Zn}_{0,6}\text{Fe}_2\text{O}_4 - (1 - x)\text{PbZr}_{0,53}\text{Ti}_{0,47}$

M.V. Khakhlenkov, S.A. Gridnev
IMPROVEMENT OF THE PIEZO RESPONSE TO RELAXORS 0.89PMN-0.11PZT

V.A. Khomchenko, J.A. Paixão, D.V. Karpinsky, S.I. Latushka, S.V. Dubkov, M.V. Silibin
COMPOSITION-DRIVEN ANTIFERROMAGNETIC-WEAK FERROMAGNETIC TRANSITION IN BISMUTH FERRITES

M.V. Silibin, D.V. Zheludkevich, S.I. Latushko, D.V. Karpinsky
CRYSTAL STRUCTURE OF SOLID SOLUTIONS $\text{BiFeO}_3 - \text{BaTiO}_3$ IN THE FIELD OF PHASE TRANSITIONS

M.P. Kolodiazhna, I.V. Bilych, K.R. Zhekov, N.G. Burma, G.A. Zvyagina, V.D. Fil, I.A. Gudim
MAGNETOELASTICITY AND MAGNETOPIEZOELECTRIC EFFECT IN $\text{HoFe}_3(\text{BO}_3)_4$

E.N. Beginin, A.V. Sadovnikov, S.A. Nikitov, A.I. Stognij
FMR IN MONOLITHIC STRUCTURES TYPE YIG/PZT

A. Plyushch, M. Ivanov, Š. Svirskas, J. Macutkevič, P. Kuzhir, A. Selskis, J. Banys
WATER-BASED TAPE CASTING OF $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-0.3\text{PbTiO}_3$ THIN FILM

A. Stanulis, A. Katelnikovas, A.N. Salak, P. Seibutas, M. Ivanov, R. Grigalaitis, J. Banys, A. Kareiva, R. Ramanauskas, A.R. Barron
LUMINESCENCE IN LANTHANIDE-DOPED RUDDLESDEN-POPPER COMPOUNDS AS A SENSITIVE PROBE OF STRUCTURAL TRANSFORMATIONS

Oral presentations (time limit 15 min)

Chairpersons:

Prof. Ekaterina D. Politova

Dr. Vladimir V. Shvartsman

- 12:15-12:30 V.A. Ketsko, M.N. Smirnova, M.A. Kopieva
MATERIALS AND FILM HETEROSTRUCTURES FOR SPINTRONICS AND
MAGNETOPLASMONICS DEVICES
- 12:30-12:45 E.D. Politova, G.M. Kaleva, A.V. Mosunov, N.V. Sadovskaya, D.A. Kiselev,
T.S. Ilyina, A.M. Kislyuk, P.K. Panda
DIELECTRIC AND LOCAL PIEZOELECTRIC PROPERTIES OF MODIFIED
CERAMICS BASED ON POTASSIUM-SODIUM NIOBATE
- 12:45-13:00 A.A. Grachev, A.V. Kozhevnikov, A.V. Sadovnikov, G.M. Dudko, Yu.V. Nikulin,
Yu.V. Khivintsev, V.K. Sakharov, Yu.A. Filimonov, A.G. Hitun
THE PHASE AND INTERFERENCE DIRECTION OF SPIN WAVES
DISTRIBUTED IN THE SYSTEM OF CROSSING FILM FERRITE IYG
WAVEGUIDE
- 13:00-13:15 M.S. Afanasyev, E.I. Goldman, D.A. Kiselev, S.A. Levashov, A.A. Sivov,
G.V. Chucheva, I.K. Bdikin, P. Gautam, B. Singh
MACRO- AND MICROSCOPIC ELECTROPHYSICAL PROPERTIES OF THIN
FILMS BASED ON LEAD-FREE MATERIALS
- 13:15-13:30 A. Grochot, V. Volobuev, G. Springholz, R. Jakiela, W. Jantsch, A. Ney and
H. Przybylińska
FERROMAGNETIC RESONANCE STUDIES OF MULTIFERROIC
 $\text{Ge}_{1-x}\text{Mn}_x\text{Te}$ EPITAXIAL LAYERS
- 13:30-13:45 J.P. Cardoso, D. Delmonte, E. Gilioli, V.V. Shvartsman, J.M. Vieira, A.N. Salak
MONOCLINIC-ORTHORHOMBIC PHASE TRANSITION IN THE
METASTABLE $\text{BiCr}_{1-x}\text{Sc}_x\text{O}_3$ ($x=0, 0.1$) PEROVSKITES
- 13:45-14:00 G.S. Rimsky, S.N. Magonov, K.I. Yanushkevich
CRYSTAL STRUCTURE AND SPECIFIC MAGNETIZATION OF SOLID
SOLUTIONS $\text{MnNi}_{1-x}\text{Ti}_x\text{Ge}$ ($0,00 \leq x \leq 0,20$)
- 14:00-14:10 **Conference photo**
- 14:10 -15:10 **Lunch**

Plenary talks (time limit 30 min)

Chairpersons: **Prof. Andris Šternbergs**
 Prof. Lara Righi

15:10-15:40 A. Šternbergs
MODERN TRENDS IN FUNCTIONAL MATERIALS AND TECHNOLOGIES
Prof. Andris Šternbergs, Member of Latvian Academy of Sciences, Deputy
Director of Science of the Institute of Solid State Physics, University of Latvia,
Riga, Latvia

15:40 -16:10 L. Righi, S. Fabbri, F. Albertini, F. Orlandi
MULTIFERROIC MAGNETIC SHAPE MEMORY Ni-Mn-Ga HEUSLER
ALLOYS
Prof. Lara Righi, Department of Chemistry, Life Sciences and Environmental
Sustainability, University of Parma, Parma, Italy

Oral presentations (time limit 15 min)

Chairpersons: **Prof. Andris Šternbergs**
 Prof. Lara Righi
 Dr. Andrei N. Salak

16:10 -16:25 O.V. Malyshkina, Gr.S. Shishkov, A.I. Ivanova, Y.A. Malyshkin, Yu.A. Alexina
MULTIFERROIC CERAMICS BASED ON BARIUM TITANATE AND
BARIUM FERRITE

16:25–16:40 G.A. Geguzina
SEIGNETOMAGNETICS WITH THE PEROVSKITE STRUCTURE

16:40-16:55 A.A. Amirov, D.M. Yusupov, V.V. Rodionov, V.S. Nikulin and A.M. Aliev
MULTIFERROIC COMPOSITES WITH COMBINED CALORIC AND
MAGNETOELECTRIC EFFECTS

17:20-18:00 Delivery of the conference participants to the «Priozerny Dvor» Restaurant,
Vitebsk district, Dolzha village

18:00-22:30 **Conference dinner** at the «Priozerny Dvor» Restaurant

22:30-23:00 Delivery of the conference participants to the Hotel «Luchesa», Prospect
Stroiteley, 1

September 26, 2019, Thursday

Plenary talks (time limit 30 min)

Chairpersons:

Prof. Gopalan Srinivasan

Prof. Yuri K. Fetisov

Prof. Vladimir M. Petrov

09:00-09:30 Y. Liu, M. Harshfield, M.A. Popov, W. Zhang, G. Srinivasan
STRAIN MEDIATED MAGNETO-ELECTRIC INTERACTIONS IN COAXIAL NANOFIBERS OF FERRITE AND FERROELECTRIC
Prof. Gopalan Srinivasan, Distinguished Professor, Physics Department, Oakland University, Rochester, Michigan, USA

09:30-10:00 V.M. Petrov, A.F. Saplev
MAGNETO-ACOUSTIC RESONANCE IN LAYERED STRUCTURE OF FERRITE AND PIEZOELECTRIC BIMORPH
Prof. Vladimir M. Petrov, Doctor of Technical Sciences, Professor, Department of Design and Technology of Radio Equipment, Yaroslav the Wise Novgorod State University, Veliky Novgorod, Russia

10:00-10:30 Yu.K. Fetisov
NONLINEAR MAGNETOELECTRIC EFFECTS IN FERROMAGNETIC-PIEZOELECTRIC HETEROSTRUCTURES
Prof. Yuri K. Fetisov, Director of Research - Education Center «Magnetolectric Materials and Devices», MIREA - Russian Technological University, Moscow, Russia

10:30-11:00 A.V. Sadovnikov, A.A. Grachev, E.N. Beginin, S.A. Nikitov
FUNCTIONAL MAGNETIC DEVICES BASED ON ELECTRICALLY CONTROLLED MULTIFERROID STRUCTURES
Dr. Alexander V. Sadovnikov, PhD., assistant professor, Department of Open Systems Physics, Saratov National Research State University named after N.G. Chernyshevsky, Saratov, Russia

11:00-11:30 **Coffee break**

Poster presentations

Chairpersons:

Dr. Eriks Birks

Dr. Natallia N. Poddubnaya

11:30-12:30 D.A. Burdin, D.V. Saveliev, N.A. Economov, D.V. Chashin, Yu.K. Fetisov
EXCITATION OF MAGNETO-ELECTRIC STRUCTURE BY CURRENT

A.S. Avetisyan, V.M. Khachatryan, T.A. Galichyan
REFLECTION AND TRANSMISSION OF ELECTRO ELASTIC WAVES ON PLANE NON-ACOUSTIC CONTACT INTERFACE OF TWO PIEZOELECTRIC HALF-SPACES

A.I. Ivanova, O.V. Malyshkina, Gr.S. Shishkov
MICROSTRUCTURE OF COMPOSITE MATERIALS BASED ON BARIUM TITANATE AND BARIUM FERRITE

R.A. Lanovsky, M.V. Bushinsky, N.V. Tereshko
MAGNETIC AND CRYSTAL STRUCTURAL PROPERTIES OF LAYERED
COBALTITES $Sr_{1-x}Y_xCoO_{3-\delta}$

A.V. Nikitin, N.V. Tereshko, M.V. Bushinsky
MAGNETIC PROPERTIES OF MULTIFERROICS
 $Bi_{1-x}Ca_xFe_{1-x}Mn_xO_3$ ($x \leq 0.22$)

Yu.V. Nikulin, S.L. Vysotsky, A.V. Kozhevnikov, Yu.V. Khivintsev,
V.K. Sakharov, Yu.A. Filimonov, A.I. Stognij, S.A. Nikitov
MAGNETOELASTIC PROPERTIES OF FILMS OF IRON-YTTRIUM
POMEGRANATE OBTAINED BY ION-BEAM SPRAYING ON
SEMICONDUCTOR SUBSTRATES

A.P. Odrinsky
INVESTIGATION OF LOCALIZED CHARGE THERMAL EMISSION IN
ELECTRICALLY INHOMOGENEOUS LAYERED CRYSTALS OF
FERROELECTRICS – SEMICONDUCTORS

A.I. Stognij, N.N. Novitskii, S.A. Sharko, A.I. Serokurova, T.A. Bukzheleva
MAGNETOELECTRIC INTERACTIONS IN LAYERED STRUCTURES
BASED ON Co/TiO₂/PZT

D.A. Burdin, D.V. Chashin, Yu.K. Fetisov, N.A. Economov
PARAMETRIC AMPLIFICATION IN COMPOSITE STRUCTURE
FERROMAGNETIC-PIEZOELECTRIC

D.V. Saveliev, D.V. Chashin, Yu.K. Fetisov, L.Yu. Fetisov, D.A. Vyunik
ANISOTROPIC MAGNETOELECTRIC EFFECT IN A COMPOSITE
STRUCTURE BASED ON A MAGNETOSTRICTIVE FIBER COMPOSITE

V.M. Laletin, V.V. Rubanik, V.V. Rubanik jr., A.D. Shilin, N.N. Poddubnaya
INFLUENCE OF ULTRASOUND MECHANOACTIVATION ON
MAGNETOELECTRIC EFFECT IN MULTIFERROIC COMPOSITES OF
LEAD ZIRCONATE TITANATE AND NICKEL FERRITE

Oral presentations (time limit 15 min)

Chairpersons: **Prof. Vladimir M. Petrov**

Dr. Elena L. Fertman

12:30-12:45 V.M. Laletin, N.N. Poddubnaya
MAGNETOELECTRIC EFFECT IN FERROMAGNETIC - MULTIFERROIC –
FERROMAGNETIC STRUCTURES

12:45-13:00 D.A. Filippov, V.M. Laletin, N.N. Poddubnaya, J. Zhang, G. Srinivasan
MAGNETOSTRICTION THROUGH MAGNETOELECTRICITY: A NEW
METHOD FOR DETERMINING MAGNETOSTRICTION
CHARACTERISTICS OF FILM STRUCTURES

13:00-13:15 I.V. Zavislyak, M.A. Popov, H. Qu, Y. Liu, G. Srinivasan
NONLINEAR MAGNETOELECTRIC EFFECTS IN FERRITES

13:15-13:30 T. Kudrevicius, S. Svirskas, M. Duce, M. Jurjans, E. Birks, J. Banys
DIELECTRIC SPECTROSCOPY AND PIEZOELECTRIC PROPERTIES OF
LEAD-FREE (1-x)(0.8NBT-0.2BT)-xNN SOLID SOLUTIONS

- 13:30-13:45 L.Yu. Fetisov, D.V. Saveliev, D.V. Chashin, Yu.K. Fetisov
DIRECT AND CONVERSE MAGNETOELECTRIC EFFECTS IN THE
STRUCTURE WITH A PIEZOPOLYMER
- 13:45-14:00 S.A. Sharko, N.N. Novitskii, A.I. Serokurova, N.N. Poddubnaya, T.A. Bukzheleva
ELASTIC-BONDED STATE IN LAYERED MAGNETOELECTRIC
STRUCTURES Co/PZT
- 14:00-14:15 A.I. Serokurova, S.A. Sharko, N.N. Novitskii, N.N. Poddubnaya, T.A. Bukzheleva
INFLUENCE OF THE SMOOTHING TiO₂ LAYER ON FORMATION OF
INTERFACE MAGNETOELECTRIC PROPERTIES OF Co/TiO₂/PZT
STRUCTURES

14:15 -15:05

Lunch

Plenary talks (time limit 30 min)

Chairpersons:

Prof. Rainer Schmidt

Dr. Edmondo Gilioli

15:05-15:35

R. Schmidt

DETECTION OF MULTIFERROIC COUPLING BY MAGNETO-IMPEDANCE
SPECTROSCOPY

Prof. Rainer Schmidt, Department of Material Physics, Complutense University
of Madrid, Madrid, Spain

15:35 -16:05

E. Birks

SOME RESEARCH ASPECTS OF NBT BASED COMPOSITIONS

Dr. Eriks Birks, Head of laboratory, Institute of Solid State Physics, University of
Latvia, Riga, Latvia

16:05-16:35

E. Gilioli, D. Delmonte, A. Gauzzi, F. Mezzadri, M. Verseils

CATIONIC SUBSTITUTION VS. MULTIFERROICS PROPERTIES IN
COMPLEX PEROVSKITES

Dr. Edmondo Gilioli, Head of the High-Pressure Lab and the Thin Films Lab,
Institute of Materials for Electronics and Magnetism, Parma, Italy

16:35-17:05

E.L. Fertman, A.V. Fedorchenko, A.N. Salak, V.V. Shvartsman, D.D. Khalyavin
EXCHANGE BIAS PHENOMENON DRIVEN BY SPONTANEOUS PHASE
SEPARATION IN MAGNETIC PEROVSKITES

Dr. Elena L. Fertman, Department of Optical and Magnetic Properties of Solids,
B.Verkin Institute for Low Temperature Physics and Engineering of the National
Academy of Sciences of Ukraine, Kharkiv, Ukraine

17:05-17:35

Coffee break

17:40-20:00

Vitebsk sightseeing tour

September 27, 2019, Friday

Plenary talks (time limit 30 min)

**Chairpersons: Prof. Adriana Zeleňáková
Dr. Antoine Barbier**

- 09:00-09:30 O.A. Meerovskaya
CURRENT STATE AND OPPORTUNITIES OF INTERNATIONAL SCIENTIFIC COLLABORATION IN BELARUS
O.A. Meerovskaya, Head, National Information Point for EU Research and Innovation Programmes, BelISA, Minsk, Belarus
- 09:30-10:00 V.V. Shvartsman, M. Etier, Ul-Haq.M. Naveed, D. Lewin, D.C. Lupascu
MAGNETOELECTRIC EFFECT IN COMPOSITE MULTIFERROIC BaTiO₃-(Co/Ni)Fe₂O₄ CERAMICS
Dr. Vladimir V. Shvartsman, Associate Professor, Faculty of Engineering, Institute for Material Science, University of Duisburg-Essen, Essen, Germany
- 10:00-10:30 A. Zeleňáková, P. Hrubovcak, O. Kapusta, J. Kovac, V. Girman, V. Zelenak
RELAXATION PROCESSES AND MAGNETOCALORIC EFFECT IN MAGNETIC NANOPARTICLES
Assoc. Prof. Adriana Zeleňáková, PhD., Head of Department of Condensed Matter Physics, University of P. J. Šafarik in Košice, Košice, Slovakia
- 10:30-11:00 A.N. Salak, D.D. Khalyavin
NOVEL FUNCTIONAL MATERIALS VIA CONVERSION POLYMORPHISM OF HIGH-PRESSURE STABILIZED ABO₃ PHASES
Dr. Andrei N. Salak, Invited Research Fellow, Department of Materials and Ceramics Engineering, CICECO, University of Aveiro, Aveiro, Portugal
- 11:00-11:30 A. Barbier, P.-L. Nguyen, B. Sarpi, F. Petronio, M. Rioult, T. Aghavnian, J.-B. Moussy, D. Stanescu, H. Magnan, C. Mocuta, A. Vlad, A. Resta, P. Ohresser, F. Maccherozzi, C. Rountree, N. Jedrecy, R. Belkhou
ARTIFICIAL MULTIFERROICS NANOSTRUCTURES BASED ON FERRITES / BATIO₃ LOW DIMENSIONAL EPITAXIAL STRUCTURES
Dr. Antoine Barbier, Expert Senior, Laboratoire Nano-Magnétisme et Oxydes, French Alternative Energies and Atomic Energy Commission, Saclay, France
- 11:30-12:00 **Closing ceremony**