SCIENTIFIC PROGRAM

Wednesday, June 22, 2022

ARRIVAL OF PARTICIPANTS 09:00 – 13:00

MEETING OF SOLVERS OF THE PROJECT CEDAMNF,
EXCHANGE OF EXPERIENCES, DISCUSSION 10:00

REGISTRATION AND CHECK-IN AT THE HOTEL RECEPTION 11:00

LUNCH 11:30

OPENING CEREMONY 15:00

PLENARY SESSION A1 *Introductory Lectures* 15:05

Adriana Zeleňáková, Vladimír Zeleňák, Pavol Hrubovčák, Jaroslava Szűcsová, Eva Beňová, Ľuboš Nagy, Michael Barutiak and Štefan Vilček
Magnetic Nanoparticles for Solving Diagnostics -Therapeutic Problems with COVID-19
(invited lecture)

Jakub Schusser, Hendrik Bentmann, Maximilian Ünzelmann, Tim Figgemeier, Chul-Hee Min, Simon K. Moser, Jennifer N. Neu, Theo Siegrist and Friedrich Reinert
Spectroscopic Signatures of Non-Trivial Topology in Weyl Semimetals
(invited lecture)

Vladimir N. Strocov
Soft X-Ray ARPES: From Bulk Materials to Buried Heterostructures and Impurities
(invited lecture)

Gerd Schönhense
Progress in Photoelectron Momentum Microscopy with Time-of-Flight Recording
(invited lecture)

Acknowledgment. *Last three contributions were supported by the project CEDAMNF, reg. no. CZ.02.1.01/0.0/0.0/15_003/0000358, co-funded by the European Regional Development Fund (ERDF).*

COFFEE BREAK 16:30

SESSION A2 ***International Conference:***
Advances in Nuclear Engineering 17:00

Przemysław Sękowski, Joanna Matulewicz, Stanisław Gierlotka, Tomasz Horwacik, Izabela Skwira-Chalot, Adam Spyra, Swietlana Stelmakh, Jan Swakoń, Wiktoria Szcześniak, Andrzej Twardowski and Tomasz Matulewicz
The BN Samples as Targets for Studies of Nuclear Reactions on Nitrogen: $^{14}N(p,d)^{13}N$ at Proton Energies Used in Hadrontherapy

Andrej Novak, Andrea Sagatova and Bohumir Zatko
Energy Calibration of Timepix Detector with GaAs Sensor

Vendula Filová, Branislav Vrban, Štefan Čerba, Jakub Lüley, Vladimír Nečas and Maria Dugdale
Performance Testing of the System for Analysis of PADC Track Detectors for Neutron Dosimetry

Štefan Čerba, Branislav Vrban, Jakub Lüley, Vendula Filová, Vladimír Nečas, Ondřej Šťastný, Karel Katovský, Marko Gloginjić, Željko Mravik, Marko Erić and Srdjan Petrović
Evaluation of the Responses of the NuDet Neutron Detector in the Mini Labyrinth Experiment

Jiří Burian, Štefan Čerba, Marko Erich, Vendula Filová, Marko Gloginjić, Karel Katovský, Jakub Lüley, Željko Mravik, Srdjan Petrović, Ondřej Šťastný and Branislav Vrban
Theoretical Simulation and Experimental Testing of Advanced Shielding Materials Properties with Focus on Inhomogeneity and Build-up

Karel Katovsky, Jiří Burian, Štefan Čerba, Marko Erich, Vendula Filová, Marko Gloginjić, Jakub Lüley, Željko Mravik, Srdjan Petrović, Ondřej Šťastný and Branislav Vrban
Neutron Field Spectral Indices Investigation Using Activation Foils Modified by Ion Implantation and Vapor Deposition

Srdjan Petrović
Application of the Crystal Rainbow Effect as a Basis for a Nuclear Analytical Method

Acknowledgment. *This scientific conference was supported by the Slovak Research Development Agency within the project No. APVV VV-20-300 and by Nureco o. z.*

SESSION B1 ***5th international workshop:***
Current Successes in the Photoemission and Electron Microscopy I. 17:00

Acknowledgment. *All contributions in this workshop were supported by the project CEDAMNF, reg. no. CZ.02.1.01/0.0/0.0/15_003/0000358, co-funded by the European Regional Development Fund (ERDF).*

EUROPEAN UNION
European Structural and Investment Funds
Operational Programme Research,
Development and Education

Martin Gmitra, Denis Kochan, Marko Milivojević and Karol Szalowski
Charge Density Wave Proximity Effects on Spin-Orbit and Exchange Coupling in Graphene on 1T-TaS_2 Monolayer

Jozef Haniš and Martin Gmitra
Quasiparticle Interference in Superconducting Layered Misfit Compound $(LaSe)_{1.14}NbSe_2$

Ondřej Šipr, Sergey Mankovsky and Hubert Ebert
Anomalous Hall Effect and Spin Hall Effect for a Disordered Host: Breakdown of Traditional Paradigm

Pavel Calta, Jaroslav Bruncko, Marie Netrvalová, Rostislav Medlín and Ján Minár
KrF Excimer Laser 248 nm Treatment of Silicon Thin Films: Investigation of Microstructure and Optical Properties

Karol Hricovini, Maria Christine Richter, Olivier Heckmann, Jean-Michel Mariot, Janusz Sadowski, Thiagarajan Balasubramanian, Mats Leandersson, Johan Adell, Craig Polley, Ján Minár and Laurent Nicolaï
Electronic Structure of Vicinal Surfaces Studied by ARPES: Case of InAs(111)

M. C. Richter, O. Heckmann, K. Hricovini, M. De Feudis, J. Kotakoski and V. Skakalova
Quantum Centres in Diamond

SHORT BREAK

Laxman Nagi Reddy, Maria Christine Richter, Olivier Heckmann, Jean Zaraket, Mauro Fanciulli, Waly Ndiaye, Saleem Ayaz Khan, Laurent Nicolaï, Natalia Olszowska, Marcin Rosmus, Weimin Wang, Ján Minár and Karol Hricovini
Synchrotron-Based ARPES Studies of Hf (0001) Single Crystal

Miroslav Cieslar, Rostislav Králík, Barbora Křivská, Lucia Bajtošová, Olexandr Grydin, Mykhailo Stolbchenko and Mirko Schaper
Al_3(Zr,Sc) Particles in Twin-Roll Cast Al-Li Alloy

Lucia Bajtošová, Rostislav Králík, Barbora Křivská, Jan Hanuš and Miroslav Cieslar
Microstructure of Ni@Ti Core-Shell Nanoparticles

Barbora Křivská, Miroslav Cieslar, Rostislav Králík, Lucia Bajtošová, Olexandr Grydin, Mykhailo Stolbchenko and Mirko Schaper
Influence of Casting Methods on Microstructure Development of Al-Li Alloy During Constrained Groove Pressing

L. Nicolaï, J. Minár, M. C. Richter, O. Heckmann, M. Fanciulli, L. Nagi Reddy, G. Bell, R. Haria, J.-M. Mariot and K. Hricovini
Band Dispersion within Pristine InBi Crystal

P. Chaudhary, K. K. Dubey, G. K. Shukla, S. Singh, S. Sadhukhan, S. Kanungo, A. K. Jena, S.-C. Lee, S. Bhattacharjee, Ján Minár and S. W. D'Souza
Role of Chemical Disorder in Tuning the Weyl Points in Vanadium Doped Co_2TiSn

SESSION C1 *Nuclear Science and Technology, Irradiation of Materials, Radiation Detection* 18:30

Juraj Paulech, Justín Murín, Vladimír Kutiš, Gabriel Gálik and Michal Miloslav Uličný
Behaviour of Coolant in VVER-440 Under Major Outage Conditions

Jarmila Degmová, Vladimír Kršjak and Stanislav Sojak
Non-Destructive Testing Applied on Model Nuclear Power Plant's structural Materials - First Approach for Magnetic Barkhausen Noise Technique

Marko Erich, Marko Gloginjić, Željko Mravik, Branislav Vrban, Štefan Čerba, Jakub Lüley, Vladimír Nečas, Vendula Filová, Karel Katovský, Ondrej Štastný and Srdjan Petrović
Dependence of the 6H - SiC Induced Amorphization on the Ion Beam Implanted Fluence

Ivan Procházka, Josef Blažej, Vít Sopko, Roberta Bimbová, Jan Kodet, Jan Břínek, Matěj Stavinoha and Bruno Sopko
Resistance to Gamma Radiation Evaluation of a Picosecond Event Timer for Solid State Photon Counting in Space

Bohumír Zaťko, Ladislav Hrubčín, Pavol Boháček, Yurij Borisovič Gurov, Sergej Vladimirovič Rozov, Sergej Alexandrovič Evseev, Maxim Viktorovič Bulavin, Nikolaj Ivanovič Zamiatin, Yurij Andrejevič Kopylov, Mária Sekáčová and Eva Kováčová
Spectrometric Performance of 4H-SiC Detectors after Neutron Irradiation

Robert Hinca and Branislav Stribrnsky
Independent Ad-Hoc Radiation Monitoring of Obsolete Waste Water Discharge Channel Near Jaslovske Bohunice Nuclear Facility

Katarína Sedlačková, Bohumír Zaťko and Vladimír Nečas
Spectrometry of Electron Irradiated CdTe Schottky-Barrier Semiconductor Detectors before Polarization Onset

Jakub Lüley, Branislav Vrban, Štefan Čerba and Vladimír Nečas
Coupling of the TRITON and FEMAXI6 Code

Andrea Šagátová, Andrej Novák, Eva Kováčová, Oleg Riabukhin, Soňa Kotorová and Bohumír Zaťko
Radiation-Degraded SI GaAs Detectors and Their Metallization

Martin Petriska, Stanislav Sojak, Vladimír Kršjak, Jarmila Degmová and Vladimír Slugeň
Combined Triple Coincidence Positron Lifetime and Coincidence Doppler Broadening Measurement Setup

Soňa Kotorová, Andrea Šagátová, Gabriel Vanko, Pavol Boháček and Bohumír Zaťko
Effect of Thermal Annealing on 4H-SiC Radiation Detector

Branislav Vrban, Jakub Lüley, Štefan Čerba, Vendula Filová and Vladimír Nečas
Nuclear Data Induced Uncertainty in the ALLEGRO-MOX Burnup Calculation

Norbert Gál, Bohumír Zaťko, Pavol Boháček and Eva Kováčová
Detection Properties of Semi-Insulating GaAs Radiation Detectors at Low Temperatures

SESSION C2 *New Materials and Structures, Nanostructures and Thin Films, Their Analysis and Specific Applications, Applied Optics, Sensorics I.* 18:30

Jana Šimeg Veterníková, Jarmila Degmová, Stanislav Sojak, Milan Pavúk and Vladimír Slugeň
Nano-Hardness Mapping of Austenitic Steel 316L with Different Surface Treatments

Dávid Košovský, Marcel Miglierini, Milan Pavúk and Tomáš Kmječ
Surface Features of Binary $Fe_{100-x}Cr_x$ ($1 \leq x \leq 50$) Alloys

Jaroslava Škriniarová, Robert Andok, Magdaléna Kadlečíková and Juraj Nevřela
Problems Concerning the Demolding Process of Nano Imprint Lithography

Stefan Luby and Martina Lubyova
Nanoparticle Supercrystals – a Path to New Phenomena and Devices in the Nanoworld

Robert Andok, Katia Vutova, Anna Konecnikova, Mario Ritomsky and Ivan Kostic
Study of Lithographic Parameters for the Trilayer Resist Systems in Electron Beam Lithography

Šimon Berta, Vladimír Goga, Ladislav Šarkán and Justín Murín
Active Vibration Damping of Aluminum Beam Using Piezoelectric Actuator

Daniel George Grey, Marcel Miglierini, Július Dekan and Peter Švec Sr.
Fe(Co)-Sn-B Metallic Glasses Investigated by Mössbauer Spectrometry

Štefan Hardoň, Jozef Kúdelčík, Anton Baran and Martin Brandt
Effect of Two Concentrations SiO_2 Nanoparticles on Molecular Mobility and Dielectric Response of Single Component Resin Based on Polyesterimid

Marek Veveričík, Peter Bury and František Černobila
Effect of Doping Process on Structural Properties of Liquid Crystals

Peter Vrábel and Jozef Kravčák
The Analysis of Magnetic Flux in Single and Couple Magnet Systems

Tomáš Váry, Vojtech Nádaždy and Juraj Chlpík
Interplay of Charge-Transfer Exciton and Effective Band Gap in Organic Donor-Acceptor Blends

Juraj Chlpík, Soňa Kováčová, Ľuboš Podlucký, Martin Ziman, Martin Feiler, Soňa Kotorová, Jaroslav Kováč Jr., Tomáš Váry and Július Cirák
Total Internal Reflection Ellipsometry of Au/SiOxNy Waveguide Structures for Sensor Applications

Dana Seyringer, Stanislava Serečunová, Peter Gašo, Dušan Pudiš, Heinz Seyringer, František Uherek, Fadi Dohnal and Johann Zehetner
Design of 16-Channel, 100-GHz Multimode Polymer-Based AWG

Stanislava Serecunova, Dana Seyringer, Dusan Pudis, Tomas Mizera, Frantisek Uherek and Heinz Seyringer
Optimization of 3D 1×4 Multimode Interference Splitter Based on Polymer Material Platform

Norbert Tarjányi and Marián Janek
Birefringent Material-Based Optical Scales

Michal Miloslav Uličný and Vladimír Kutiš
Three-Dimensional CFD Modelling and Simulation of a PEM Fuel Cells

WELCOME PARTY (HOTEL RESTAURANT) 20:00-24:00

Thursday, June 23, 2022

BREAKFAST 07:00

SESSION B2 ***International workshop:***
Current Successes in the Photoemission and Electron Microscopy II. 08:30

Acknowledgment. *All contributions in this workshop were supported by the project CEDAMNF, reg. no. CZ.02.1.01/0.0/0.0/15_003/0000358, co-funded by the European Regional Development Fund (ERDF).*

Petr Novák and Joe Briscoe
Controlling the Conductivity of ZnO Films by Oxide Conditions for ZnO Nanorod-Based Devices

Štěpánka Jansová, Zdeněk Jansa, Lucie Nedvědová, Rostislav Medlín and Ján Minár
Identification of Asbestos Fibres from Soil Sediments

Zdeněk Jansa, Pavol Šutta, Lucie Nedvědová and Ján Minár
The Effect of Transition Metal Dopants on the Physical Properties of Perovskites Studied by XRD Analysis

Anna Benediktová, Dagmar Jandová, Jan Očenášek and Ján Minár
Study of Dislocation Interactions in Cantor Alloy. Comparison between Molecular Dynamics Modeling and Observation with Transmission Electron Microscope

Veronika Vavruňková, Štefan Morávka, Jitka Horská and Ján Minár
Nanoindentation and Its Application on Gear Teeth

Olena Tkach, Katerina Medjanik, Olena Fedchenko, Sergey Babenkov, Hans-Joachim Elmers and Gerd Schönhense
High-Energy Time-of-Flight Momentum Microscope Development

SESSION A3 *Physical Properties and Structural Aspects of Solid Materials, Biophysics and Interdisciplinary Physics I.* 08:30

Milan Pavúk and Marcel Bruno Miglierini
Uncertainty of Height Measurements in Atomic Force Microscopy

Jozef Sitek, Katarína Sedlačková, Beata Butvinová, Július Dekan and Milan Pavúk
Structural and Magnetic Properties of Nanocrystalline FeSiBPCu Alloy

Jana Horniaková, Simeon Samuhel, Jozef Onufer, Peter Duranka, Mária Kladivová and Ján Ziman
Influence of Temperature on Domain Wall Geometry in Bistable Magnetic Microwire

Alen Fos, Peter Švec Sr., Irena Janotová, Dušan Janičkovič, Beata Butvinová, Marek Búran, Anna Kyritsi, Nikolaos Konstantinidis, Jozef Marcin, Ivan Škorvánek and Patrik Novák
Microstructure and Magnetic Properties of Rapidly Quenched Fe-Sn-B Based Alloys

Libor Ďuriška, Ivona Černičková, Peter Švec, Peter Švec, Sr., Marek Mihalkovič, Pavol Priputen and Jozef Janovec
Defects in Atomic Structure of Decagonal Quasicrystalline Approximants

Veronika Turiničová, Pavol Ďurina, Martin Moško and Maroš Gregor
Measurement of Trapped Electric Charge in Dielectric Biomaterials Charged in Scanning Electron Microscope

COFFEE BREAK 10:00

SESSION B3 ***International workshop:***
Current Successes in the Photoemission and Electron Microscopy III. 10:30

Acknowledgment. *All contributions in this workshop were supported by the project CEDAMNF, reg. no. CZ.02.1.01/0.0/0.0/15_003/0000358, co-funded by the European Regional Development Fund (ERDF).*

G. K. Shukla and Sanjay Singh
Atomic Disorder and Berry Phase Driven Anomalous Hall Effect in a Co-Based Heusler Compounds

Rostislav Medlín, Marek Václavík, Michal Dudák, Vladimír Novák, František Štěpánek, Miloš Marek and Petr Kočí
TEM of Catalytic Materials

Ondřej Caha, Juraj Krempaský and Gunther Springholz
Electric Field Induced Displacements of Individual Atoms in Ferroelectric GeTe Thin Films Studied Using Standing Wave X-Ray Fluorescence

Kimmo Mustonen, Christoph Hofer, Peter Kotrusz, Martin Hulman, Karol Hricovini, Christine Richter and Viera Skákalová
Simple Synthetic Route Toward Two-Dimensional Metal Iodides

Procopios Constantinou, Taylor Stock, Eleanor Crane, Alexander Kölker, Marcel van Loon, Juerong Li, Sarah Fearn, Henric Bornemann, Nicolò D'Anna, Andrew Fisher, Vladimir N. Strocov, Gabriel Aeppli, Neil Curson and Steven Schofield
Electronic Structure of Ultra-Dense, Two-Dimensional Dopant δ-Layers in Silicon

Fatima Alarab, Karol Hricovini, Christine Richter, Jan Minar and Vladimir N. Strocov
Origin of the In-Gap States in the 3d Perovskite Oxide $SrTiO_3$ Doped with Ni

Sarath Sasi, Palaniappan Subramanian, Sunil Wilfred D'Souza, Laurent Nicolaï, Alex Schechtera and Ján Minár
X-ray Photoelectron Spectroscopy Study of Nanocatalyst Coated Gas Diffusion Electrodes for Dimethyl Ether Fuel Cell Application

Sarath Sasi, Palaniappan Subramanian, Sunil Wilfred D'Souza, Laurent Nicolaï, Alex Schechtera and Ján Minár
X-ray Photoelectron Spectroscopy Study of Nanocatalyst Coated Gas Diffusion Electrodes for Dimethyl Ether Fuel Cell Application

Jindřich Musil and Šimon Kos
The Use of Strongly Non-Equilibrium Processes in Magnetron Sputtering of Hard Protective Films

SESSION C3 *Physical Properties and Structural Aspects of Solid Materials, Biophysics and Interdisciplinary Physics II.* 10:30

Ivona Černičková, Marek Mihalkovič, Libor Ďuriška, Peter Švec, Peter Švec Sr. and Jozef Janovec
Atomic Models of ε_n Structural Variants - Overview

Justín Murín, Vladimír Goga, Juraj Hrabovský, Juraj Paulech, Gabriel Gálik, Ladislav Šarkan and Vladimír Kutiš
Structural Analysis of New Dampers Made of Nylon Springs

Vladimír Jančárik, Peter Palček and Karol Hilko
Change in Magnetic Properties of Low Carbon Steel after Heat Treatment

Peter Kollár, Denisa Olekšáková, Robert Maciaszek, Martin Tkáč, Ján Füzer and Zuzana Birčáková
Influence of Inner Demagnetizing Field on Permeability of Iron Compacted Powder

Oľga Fričová and Mária Hutníková
Effects of Plasticizer on Viscoelastic Properties of Biodegradable Polymer Blends of Poly (Butylene-Adipate-Co-Terephthalate) with Thermoplastic Starch

Jaroslav Hornak, Pavel Trnka, Pavel Prosr, Ondrej Michal and Jiri Kopriva
The Behavior of Cold-Curing Resin after Thermal and UV Radiation Exposures

Olha Vinnik, Róbert Tarasenko, Liliia Kotvytska, Katarína Zakuťanská, Natália Tomašovičová, Martin Orendáč and Alžbeta Orendáčová
The Study of Lattice Dynamics in Dimerized Quantum Magnets with Chain-Like Crystal Structure

Marián Palcut, Martina Kaľavská, Libor Ďuriška, Ivona Černičková, Marek Adamech and Jozef Janovec
Corrosion Behavior of Zn-Mg and Zn-Mg-Y Alloys

Magdaléna Kadlečíková, Karol Jesenák, Ľubomír Vančo, Jaroslava Škriniarová, Michal Hubeňák and Juraj Breza
Carbon Nanowalls on Porous Forms of SiO_2 and Al_2O_3

Michael Barutiak, Adriana Zeleňáková, Pavol Hrubovčák, Ľuboš Nagy, Jaroslava Szűcsová, Eva Beňová and Vladimír Zeleňák
Comparison of Magnetic Properties of Magnetic Beads for Magnetic Separation

Katia Vutova, Vania Vassileva, Ravendran Ratheesh, Raghu C Reddy, Arbind Kumar and Maria Naplatanova
Influence of Process Parameters on Refining Efficiency and Microstructure of Electron Beam Treated Hafnium Sponge

Trung-Phuc Vo, Olena Tkach, Katerina Medjanik, Olena Fedchenko, Hans-Joachim Elmers, Gerd Schönhense and Ján Minár
Circular Dichroism in Angle-Resolved Photoemission from Core-Level Emission of W(110)

Ondrej Michal, Vaclav Mentlik and Jaroslav Hornak
Influence of Prolonged Mixing of Silicon Dioxide Nanoparticles on the Electrical Properties of Resin Nanocomposites

Marko Gloginjić, Marko Erich, Vladimir A. Skuratov, Nikita S. Kirilkin, Mike Kokkoris, Stjepko Fazinić, Marko Karlušić and Srdjan Petrović
Ion Channeling Implantation Induced MgF_2 Crystal Damage through the "Eye" of Photoluminescence Spectroscopy

SESSION C4 *Physical Properties and Structural Aspects of Solid Materials, Biophysics and Interdisciplinary Physics III.* 10:30

Ľuboš Nagy, Adriana Zeleňáková, Jaroslava Szűcsová, Natalia Mielnik and Pavol Hrubovčák
Characterization of Cobalt Ferrite Magnetic Nanoparticles for Magnetic Hyperthermia Application

Maksym Lisnichuk, Vladimír Girman, Daria Yudina, Andrej Baldovský, Pavol Sovák and Jozef Bednarčík
Structural Investigation of Mechanically Alloyed Co-Fe-Ta-B-Mo Alloy

Lenka Hašková, Elemír Ušák and Mariana Ušáková
Sophisticated Software Analysis of Magnetic Quantities Obtained by Magnetic Adaptive Testing Method

Liliia Kotvytska, Róbert Tarasenko, Oleksiy Lyutakov, Mariia Erzina, Natalia Tomašovičová, Olha Vinnik, Martin Orendáč and Alžbeta Orendáčová
Physical Properties of Metallo-Organic Zeolitic Imidazolate Frameworks

Simeon Samuhel, Jana Horniaková, Jozef Onufer, Peter Duranka, Mária Kladivová and Ján Ziman
Influence of Temperature on Domain Wall Dynamics in Rapidly-Changing Magnetic Field

Karol Hilko, Daniel Škarbala and Vladimír Jančárik
Influence of Measurement Condition on Magnetic Parameters of Construction Steel

Vladimír Girman, Vladimír Kolesár, Maksym Lisnichuk, Daria Yudina, Andrej Baldovský, Pavol Sovák and Jozef Bednarčík
Thermal Stability of Fe-Based BMGs Investigated by High-Energy X-ray Scattering

Beata Butvinová, Peter Švec Sr., Alen Fos, Irena Janotová, Ján Škoviera and Igor Maťko
Effect of Short Annealing on Soft Magnetic Properties of Fe(Co)SnBP Alloys

Robert Maciaszek, Peter Kollár, Martin Tkáč, Tetiana Rudeichuk, Mária Fáberová and Róbert Džunda
Improved Soft Magnetic Properties of Iron Powder Compacts Prepared by Mechanical Treatment of Powder Particles

Tetiana Rudeichuk, Denisa Olekšáková, Robert Maciaszek, Martin Tkáč and Peter Kollár
Preparation and Experimental Study of Properties of Magnetic Soft Composite Materials

Natália Šmídová, Oľga Fričová, Ivan Chodák and Mária Kovaľaková
Structural Characterization of Poly(Butylene-Adipate-co-Terephthalate) (PBAT) / Thermoplastic Starch Blends

Martin Tkáč, František Onderko, Zuzana Birčáková, Samuel Dobák, Peter Kollár, Mária Fáberová, Ján Füzer, Radovan Bureš and Juraj Szabó
Energy Losses in Fe Based SMCs Influenced by Ferrite Content

Adriana Zeleňáková, Jaroslava Szűcsová, Veronika Huntošová, Pavol Hrubovčák and Vladimír Zeleňák
Magnetic Properties and Cytotoxicity Study of Iron Oxide Nanoparticles with Gold Layer

Jozef Sláma, Vladimír Jančárik and Martin Šoka
Contribution to Magnetic Properties of Be-Substituted $Ni_{0.3}Zn_{0.7}Fe_2O_4$ Ferrite

Stanislav Jurečka
Model of Electric Charge Transfer in Semiconductor/Electrolyte Interface Based on Drift-Diffusion Equations

LUNCH 12:00 -14:00

SOCIAL PROGRAMME (FREE PROGRAM) 14:00

DINNER AND FRIENDSHIP PARTY (GRILL PARTY)
IN VATRA CLUB AND OUTDOOR TERRACE 19:00 - 23:00

Friday, June 24, 2022

BREAKFAST	07:00
CHECK OUT AT THE HOTEL RECEPTION	08:00-11:00
MEETING OF SOLVERS OF THE PROJECT CEDAMNF, DISCUSSIONS WITH FOREIGN PARTNERS ON COOPERATION IN THE OP JAK PROGRAM	08:00
PLENARY SESSION A4 *New Materials and Structures, Nanostructures and Thin Films, Their Analysis and Specific Applications, Applied Optics, Sensorics II.*	09:00

Katarína Viskupová, Branislav Grančič, Tomáš Roch, Leonid Satrapinskyy, Martin Truchlý, Marián Mikula, Viktor Šroba, Pavol Ďurina and Peter Kúš
Effect of Reflected Ar Neutrals on Tantalum Diboride Coatings Prepared by DC Magnetron Sputtering

Magdaléna Poláčková, Tomáš Roch and Maroš Gregor
Enhancement of Critical Current Density in Superconductor – Ferromagnet Multilayers

Peter Švec, Irena Janotová, Dušan Janičkovič, Leonardo Viana Dias, Ivan Škorvánek and Peter Švec Sr.
Survey of Routes for Formation of $L1_0$ Phase in Fe-Ni Based Alloys

Peter Cendula, Franky E. Bedoya-Lora and Rajiv Prabhakar
Semilogarithmic Current-Voltage Relationship of Photoelectrodes for Water Splitting

CONCLUDING REMARKS (CONGRESS HALL)	10:00
COFFEE BREAK	10:05
LUNCH	11:30
DEPARTURE	13:00