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PROGRAM

LEPL - FERDINAND TAVADZE METALLURGY AND MATERIALS SCIENCE INSTITUTE

E. Mindeli st.#10, Tbilisi, Georgia
Monday, October 8, 2018

09:30-10:30 - Registration

10:30-11:00 - Opening ceremony

SESSION - Chairman Giorgi Tavadze

11:00-11:15 - N. F. Shkodich, S. G. Vadchenko, D. Yu. Kovalev, A. S. Rogachev, Yu. B. Scheck

HIGH-ENERGY BALL MILLING OF Fe-B MIXTURES:
FORMATION OF AMORPHOUS STRUCTURES AND THEIR
THERMAL STABILITY

11:15-11:30 - N. Kekelidze, E. Khutsishvili, T. Qamushadze, B. Kvirkevelia, R. Kobaidze, N. Kobulashvili, Z. Chubinishvili

THE WAYS OF OBTAINING RADIATION-RESISTANT DEVICES

11:30-11:45 - J. Khantadze, G. Tavadze, A. Mukasian

CALCULATION OF FRACTIONAL COMPOSITION OF RANULAR
MEDIA PROVIDING MAXIMUM HETEROGENEOUS CONTACTS

11:45-12:15 - Coffee-break

12:15-12:30 - Z. Aslamazashvili, M. Chikhradze, G. Zakharov, G. Oniashvili, G. Mikaberidze, G. Tavadze, T. Namicheishvili, A. Tutberidze, Z. Melashvili

STUDY OF SYNTHESIS AND COMPACTION PARAMETERS IN Ti-Cr-C-Me, Ti-B, Ti-B-Me SYSTEMS FOR THE PRODUCTION OF MATERIALS BY SHS- ELECTRIC ROLLING

12:30-12:45 - G.M. Grigorenko, L.I. Markashova, O.M. Berdnikova, V.A. Shapovalov, E.V. Polovetskyi, V.V. Yakusha and A.N. Gnizdyllo
SINGLE-CRYSTAL STRUCTURE OF LARGE TUNGSTEN INGOTS

12:45-13:00 - A. P. Bibilashvili, N. D. Dolidze, Z. S. Kushitashvili, L. Z. Jibuti
SYNTESIS AND ANNEALING PROCESSES RECEIVING GAN LAYERS

13:00-14:00 – Lunch

SESSION - Giorgi Tavadze

14:00-14:15 - T. Namicheishvili, L. Antashvili, Z. Melashvili, Z. Aslamazashvili
CALCULATION OF TECHNOLOGICAL PARAMETERS OF SHS- ELECTRIC ROLLING PROCESS FOR EXPERIMENTAL EQUIPMENT

14:15-14:30 - A.B. Peikrishvili, L. J. Kecskes, G.F. Tavadze, E.Chagelishvili, B.A. Godibadze, G.A. Godibadze
LIQUID-PHASE DYNAMIC CONSOLIDATION OF REACTING BLENDS OF POWDERS

14:30-14:45 - D.T. Chkhaidze, Z.N. Megrelishvili, M.D. Loria
USAGE OF RESERVOIR OIL-SLUDGE ORGANIC EXTRACT IN
ANTI-CORROSION COATINGS

14:45-15:00 - T.Namicheishvili, A.Tutberidze, G.Tavadze,
Z.Melashvili, Z.Aslamazashvili, G.Zakharov
INNOVATIVE TECHNOLOGY OF RECEIVING PROTECTIVE
PLATES FROM METAL-CERAMIC COMPOSITE MATERIALS

15:00-15:15 - **Coffee-break**

15:15-15:30 - A. Mikeladze, L. Chkhartishvili, O. Tsagareishvili, R.
Chedia, M. Darchiashvili
CERAMIC COMPOSITES B_4C-TiB_2 IN ANOCRYSTALLINE
STATE:PRODUCTION, STRUCTURE, AND MECHANICAL
PROPERTIES

15:30-15:45 - G. Inanishvili, T. Badzoshvili, B. Amaglobeli
IRON-STEEL MANUFACTURE IN ANTIQUE GEORGIA

15:45-16:00 - M. G. Shvangiradze, K. S. Inasharidze
BASAL FIBER IN ENGINEERING MECHANICS

16:00-16:15 - V. G. Tsitsishvili, N. M. Doladeridze, N. A. Mirdzveli,
M. O. Nijaradze, Z. G. Amiridze
SYNTHESIS OF ZEOLITE MATERIALS FROM GEORGIAN
NATURAL ALUMINUM SILICATES

16:15-16:30 - A. B. Peikrishvili, G. F. Tavadze, B. A. Godibadze, E.
Sh. Chagelishvili, G. Sh. Oniashvili
SHOCK WAVE CONSOLIDATION OF NANOSTRUCTURED
TUNGSTEN BASED COMPOSITES

16:30-16:45- T.A. Marsagishvili, G.D. Tatishvili*, N.Sh. Ananiashvili, M.P. Gachechiladze, J.A. Metreveli, E.T. Tskhakaia, M.N. Machavariani
INVESTIGATION OF NANOCARBONIC POWDERS AND THEIR USE
IN ELECTROCHEMICAL COATINGS OF METALS

Tuesday, October 9, 2018

SESSION - Chairman George Oniashvili

10:30-10:45 - B. Godibadze, T. Gegechkori, G. Mamniashvili, A. Shengelaya, A. Peikrishvili
ONE STAGE PRODUCTION OF SUPERCONDUCTING MgB_2 AND
HYBRID POWER TRANSMISSION LINES BY THE HOT SHOCK
WAVE CONSOLIDATION TECHNOLOGY

10:45-11:00 - A. Oakley, B. Margiev, M. Ratishvili, A. Bakuradze
DEVELOPMENT OF TECHNOLOGY FOR OBTAINING
MULTICOMPONENT MODIFIERS, CONTAINING ALKALI-
EARTH METALS, AND BRIQUETTES OF IRON-NANO
ALUMINA MODIFIER FOR MODIFYING WEAR-RESISTANT
STEELS

11:00-11:15 - I. Pulariani, M. Kereselidze, R. Razmadze
STUDY OF THE PROCESS FOR OBTAINING SAMPLES OF
RADIATION-RESISTANT $In_xGa_{1-x}As$ SOLID SOLUTION BY
SMELTING OF $InAs$ AND $GaAs$

11:15-11:30 - N.Aslamazashvili, M.Chikhradze, G.Zakharov, G.Oniashvili,
G.Mikaberidze, G.Tavadze, T.Namicheishvili, A.Tutberidze, Z. Melashvili
PHYSICAL AND MECHANICAL PROPERTIES AND STRUCTURAL
ANALYSIS OF MATERIALS OBTAINED IN Ti-Cr-C-STEEL, Ti-B, Ti-B-
Me SYSTEMS BY "SHS-ELECTRIC ROLLING"

11:30-11:45 - Coffee-break

11:45-12:00 - G. Zakharov, M. Chikhradze, G. Oniashvili, G. Tavadze,
A. Chirakadze, Z. Aslamazashvili, G. Mikaberidze
PRODUCTION OF Mn-Cu LIGATURES BY SHS METHOD FROM
MANGANESE WAISTS

12:00-12:15 - J. V. Mosia , G. U. Nikolaishvili, M. T. Chumbadze, I. B.
Maisuradze
INVESTIGATION OF THE PHYSICOCHEMICAL
CHARACTERISTICS AND PROPERTIES OF MANGANESE ORES
OF THE CHIATURA DEPOSIT, THE FEATURES OF THEIR
PREPARATION FOR THE ELECTROTHERMAL CONVERSION IN
RELATION TO LOCAL CONDITIONS

12:15-13:00 Poster session

13:00-13:30 - Closing ceremony

13:30-14:00 – Lunch

Wednesday, October 10, 2018

Excursion to Kakheti