

## POSTERS

(current as of July 16, 2007)

<b>P1</b>	Phase relations and thermoelectric properties of alloys in the (Bi <sub>2</sub> Te <sub>3</sub> )(Sb <sub>2</sub> Te <sub>3</sub> )(Sb <sub>2</sub> Se <sub>3</sub> )and (Bi <sub>2</sub> Te <sub>3</sub> )(Bi <sub>2</sub> Se <sub>3</sub> ) systems subjected to hot extusion <u>O.B.Sokolov</u> , S. Ya. Skipidarov, N.I.Duvankov, G.G.Shabunina, NORD, Moscow, Russia
<b>P2</b>	Thermoelectric Properties of Layered Anisotropic p-type PbSb <sub>2</sub> Te <sub>4</sub> Compound and Peculiarities of its Energy Spectrum L.Shelimova, <u>M. Zhitinskaya</u> , S. Nemov, T. Svechnikova , P. Konstantinov, E. Avilov, M. Kretova, V. Zemskov State Politecnical University, St-Petersburg, Russia
<b>P3</b>	The Multistage Thermoelectric Devices with Inhomogeneous Legs <u>M.A. Korzhuev</u> , L.D.Ivanova, L.I. Petrova, Yu.V.Granatkina, T.E. Svechnikova Baikov Institute of Metallurgy and Materials Science, Moscow, Russia
<b>P4</b>	The Bismuth and Antimony Halcogenides Solid Solutions Single Crystals with Gradient Carrier Concentration <u>L.D.Ivanova</u> , L.I.Petrova, Yu.V.Granatkina Baikov Institute of Metallurgy and Materials Science, Moscow, Russia
<b>P5</b>	The Nernst-Ettingshausen, Seebeck and Hall Effects in (Sb <sub>1-x</sub> Bi <sub>x</sub> ) <sub>2</sub> Te <sub>3</sub> Single Crystals <u>M. K Zhitinskaya</u> , S. A. Nemov, Yu.G.Ispolov, T.E. Svechnikova State Politecnical University, St-Petersburg , Russia
<b>P6</b>	Effect of mixture and doping on properties of the extruded generating thermoelectric material Bi <sub>x</sub> Sb <sub>1-x</sub> Te <sub>3-y</sub> Se <sub>y</sub> A. Pustovalov, <u>L. Nebera</u> , N. Rybkin, V. Karataev, V. Osvensky, V. Abrutin, I. Maronchuk RIE «BIAPOS», Institute of Dynamics of Geospheres RAS, Russia
<b>P7</b>	Study of Thermopower in Bi Nanowires <u>E.P.Sunyavskii</u> , V.G.Solovenko Institute of Applied Physics ASM, Chisinau, Moldova
<b>P8</b>	Nano-sizing effects on the thermoelectric properties of n- and p-type conventional materials <u>V. Kosalathip</u> , S. Migot, B. Lenoir, A. Dauscher Ecole Nationale Supérieure des Mines de Nancy, Nancy cedex, France
<b>P9</b>	Curl Currents Occurrence in Homogeneous Isotropic Thermoelectric Elements <u>I.A. Drabkin</u> , L.B. Ershova Institute of Chemical Problems for Microelectronics, Moscow, Russia
<b>P10</b>	High Temperature Measurement of Thermopower <u>Č. Drašar</u> , P. Lošťák University of Pardubice, Czech Republic
<b>P11</b>	Microthermocouple Based on Microwires of Bi <sub>2</sub> Te <sub>3</sub> Alloys D. Meglei, M. Dantu, A. Rusu IEEIT ASM, Chisinau, Moldova
<b>P12</b>	Approaches to enhancement thermoelectric performance of lead chalcogenides <u>N. Popovich</u> , IEEIT ASM, Chisinau, Moldova
<b>P13</b>	Solid Solutions Based on Bismuth and Antimony Chalcogenides above Room Temperature <u>L.N. Lukyanova</u> , V.A. Kutasov, P.P. Konstantinov Ioffe Physical-Technical Institute RAS, St.-Petersburg, Russia
<b>P14</b>	Properties of n-type Mg <sub>2</sub> Si-Mg <sub>2</sub> Sn solid solutions prepared by hot pressing. <u>A.U.Samunin</u> , V.K.Zaitsev, M.I.Fedorov, P.P.Konstantinov, G.N.Isachenko A.F.Ioffe Physical-Technical Institute, St.-Petersburg, Russia
<b>P15</b>	Thermoelectric properties of PbTe/Bi heterostructures <u>E.I. Rogacheva</u> , S. Lyubchenko, Yu.V. Men'shov, P.A. Yanenko, A.V. Meriuts, M. Dresselhaus National Technical University "Kharkov Polytechnic Institute", Kharkov, Ukraine
<b>P16</b>	Concept of the effective mass and minimal thermal conductivity of superlattices <u>A. Jacquout</u> , Fraunhofer IPM, Freiburg, Germany
<b>P17</b>	Thermopower of thin bismuth wires at 80 K E. Condrea, A. Nicorici, A.Grozav, A.Todosichiuc

	IEEIT ASM, Chisinau, Moldova
P18	Thermoelectric properties of semi conducting compound $Zn_4Sb_3$ <u>M.Chitroub</u> , F.Besse, H.Scherrer Ecole Nationale Supérieure des Mines de Nancy, France
P19	Some considerations towards design and optimization of segmented thermoelectric generators <u>M. Lazard</u> , H. Scherrer GIP InSIC, Saint Dié, France
P20	Thermoelectric properties of Bi-Te compounds doped with rare earth elements by mechanical alloying <u>B.S. Kim</u> , J.H. Yang, W.S. Dow, M.W. Oh, S.D. Park, H.W. Lee, D.S. Bae <sup>†</sup> AMARL Korea Electrotechnology Research Institute, Sungju-dong Changwon, Korea
P21	Thermoelectric Biogas Dehumidified Controller <u>N.Maneetien</u> , P.Malasaam Rajamangala University of Technology, Lanna, Thailand
P22	Electricity generation from industrial waste heat by thermoelectric generator <u>M.Z.Haque</u> , Islamic University of Technology, Dhaka, Bangladesh
P23	Thermoelectric peculiarities of uniaxial-strained bismuth wires at high magnetic field <u>E. Condrea</u> , Jos A A J Perenboom IEEIT ASM, Chisinau, Moldova
P24	An Experimental Study on the Hot Spot Cooling Using Thermoelectric Cooler <u>O. J. Kim</u> , G.H. Lee Korea Institute of Machinery and Materials, Daejeon, Korea
P25	Thermoelectric generator on CeB <sub>6</sub> <u>V.H.Vardanyan</u> , S.R. Harutyunyan, V.R. Nikoghosyan, A.S. Kuzanyan, K.S. Wood, A.M. Gulian Institute for Physical Research NAS, Ashtarak, Armenia
P26	High-effective blackening coatings for film thermoelectric radiation detectors <u>N.F. Bondarchuk</u> , IEEIT ASM, Chisinau, Moldova
P27	Thermoelectric and magnetothermoelectric properties in single individual Bi-nanowires <u>A.A. Nikolaeva</u> <sup>3</sup> , D.V. Gitsu, L.A. Konopko, T. Huber, G. Para IEEIT ASM, Chisinau, Moldova
P28	Thermoelectric efficiency of Bi <sub>1-x</sub> Sb <sub>x</sub> microwires under pressure and magnetic field <u>I.A. Popov</u> , P.P. Bodiu, E.F. Moloshnik, S. Vyera IEEIT ASM, Chisinau, Moldova
P29	Thermoelectric properties of Bi wires strongly doped with acceptor impurity P.P. Bodiu, L.A. Konopko, <u>A.A. Nikolaeva</u> , A.C. Tzurkan IEEIT ASM, Chisinau, Moldova
P30	Some consideration about the impact of lead-free legislation on the electronic industry <u>N.S. Popovich</u> , IEEIT ASM, Chisinau, Moldova
P31	On the Possibility of Developing of Anisotropic Thermoelectric Material Based on MnSi <sub>1.7</sub> /Si/Ni/Sn-Multilayers <u>T.S.Kamilov</u> , D.K.Kabilov, M.E.Azimov, Tito E. Huber Tashkent State Aviation Institute, Tashkent, Uzbekistan
P32	The 3-omega method for thermal conductivity measurements of thermoelectric materials K.T.Wojciechowski, <u>R. Zybała</u> , E. Godlewska, R. Mania, K. Mars AGH University of Mining and Metallurgy, Krakow, Poland
P33	Study of recovery of waste heat from the exhaust of automotive engine J. Merkisz, <u>P. Fuć</u> , R. Mania, K. Wojciechowski Poznan University of Technology, Poznan, Poland
P34	Structural and transport properties of AgSbSe <sub>2</sub> – AgSbTe <sub>2</sub> solid solutions <u>M. Schmidt</u> , K. Wojciechowski AGH University of Science and Technology, Cracow, Poland
P35	Application of the thermoelectric piles for environmental and medical devices and equipment <u>L. Tsykalo</u> , Yu.D. Kotyukov Odessa State Academy of Refrigeration, Odessa, Ukraine

<b>P36</b>	Morphological and Anisotropic Features of the needle-like $K_2Bi_8Se_{13}$ -type Pressed Pellets <u>A.Tsiappos</u> , Th. Kyratsi, E. Hatzikraniotis, K.M. Paraskevopoulos, M.G.Kanatzidis University of Cyprus, Nicosia, Cyprus
<b>P37</b>	Thermoelectric promise of some In-based ( $Co_4Sb_{12}$ ) skutterudites <u>C. Godart</u> , A.P. Gonçalves, E.Lopes, E. Alleno ICMPE , CNRS UMR7182, CMTT, Thiais, France
<b>P38</b>	Comparison of thermal oxidation behaviour of $CoSb_3$ and $CoP_3$ J. Leszczynski, A. Malecki, <u>K.T. Wojciechowski</u> AGH University of Science and Technology, Krakow, Poland
<b>P39</b>	Thermoelectric Properties Of Tl-Doped PbTe Microwires <u>V.G. Kantser</u> , E. A. Zasavitsky, I.Zama IEEIT ASM, hisinau, Moldova
<b>P40</b>	Transport properties of partially filled $Yb_xCo_4Ge_6Te_6$ -based skutterudites <u>J. Navrátil</u> , T. Plecháček, L. Beneš, M. Vlček, F. Laufek Joint Laboratory of Solid State Chemistry of IMC AS CR and University of Pardubice, Pardubice, Czech Republic
<b>P41</b>	The Suppression of the Intrinsic Conductivity in p- $Bi_{0.5}Sb_{1.5}Te_3$ by Plastic Deformation <u>B.M.Goltsman</u> , V.A.Kutasov, L.N.Lukjanova Ioffe Physical-Technical Institute RAS, St.-Petersburg, Russia
<b>P42</b>	Thermoelectric Properties of $Bi_2Te_3 - Sb_2Te_3$ Layers Obtained by Pulsed Magnetron Sputtering <u>K. Mars</u> , R. Mania, E. Godlewska, K. Wojciechowski, G. Karpinski, P. Ziolkowski, C. Stiewe, E. Müller AGH University of Science and Technology, Cracow, Poland
<b>P43</b>	Compounds with $Th_3P_4$ Structure Type and Thermoelectric Properties <u>A. Chamoire</u> , F. Gascoin, D. Ravot, J.C. Tedenac Université Montpellier II , Montpellier, FRANCE
<b>P44</b>	Microscale Silicon Thermoelectric Generator with Low Impedance for Energy Harvesting R.G. Egbert, <u>M.R. Harvey</u> , B.P. Otis University of Washington, Seattle, WA 98195, USA
<b>P45</b>	Simulating Thermoelectric Effects with Finite Element Analysis using COMSOL-Multiphysics <u>M. Jaegle</u> , Fraunhofer-IPM, Freiburg, GERMANY
<b>P46</b>	Thermoelectric Properties of Carbon Nanotube/Conducting Polymer Nanocomposites <u>C.-C. Yang</u> , M.-S. Jeng, W.-Y. Chiu, W.-C. Chen, H.-J. Huang ITRI, Hsinchu, Taiwan
<b>P47</b>	Effect of the Ni Susbtitution on $CoSb_3$ Partially Filled with In and Yb V. Da Ros, V. Kosalathip, C. Candolfi, A. Dauscher, B. Lenoir, C. Stiewe, E. Müller, J. Hejtmanek Ecole Nationale Supérieure des Mines de Nancy, Nancy, FRANCE
<b>P48</b>	New Thermoelectric Generator, Battery A. Ivanov, <u>Yu. Lebedev</u> , B. A. Birukov Rif Corporation, Voronezh, Russia
<b>P49</b>	Theoretical Estimation of Characteristics of Thermoelectric Materials Made of Nanopowders <u>A.I. Holopkin</u> and V.N. Abrutin ADV-Engineering Co. Ltd., Moscow, Russia
<b>P50</b>	Optimal Pellet Geometry for Thermoelectric Power Generation Marc Hodes Bell Labs Ireland, Ireland
<b>P51</b>	Fabrication of Thermoelectric $Bi_2Te_3$ Microwires by Softening Glass Drag Spinning Method and its Characterization <u>V. G. Kantser</u> , D. F. Meglei, M.Dantu, IEE IT ASM, Chisinau, Moldova
<b>P52</b>	Electric Field Effect On Thermoelectric Transport Properties Of Graphene I.M. Bejenari, <u>G. Kantser</u> , E.Curmei IEEIT ASM, Chisinau, Moldova
<b>P53</b>	Pulse Operation Thermoelectric Generator Marin Nedelcu, Marian Apostol, <u>John Stockholm</u> Marvel Thermoelectrics, Vernouillet, France