



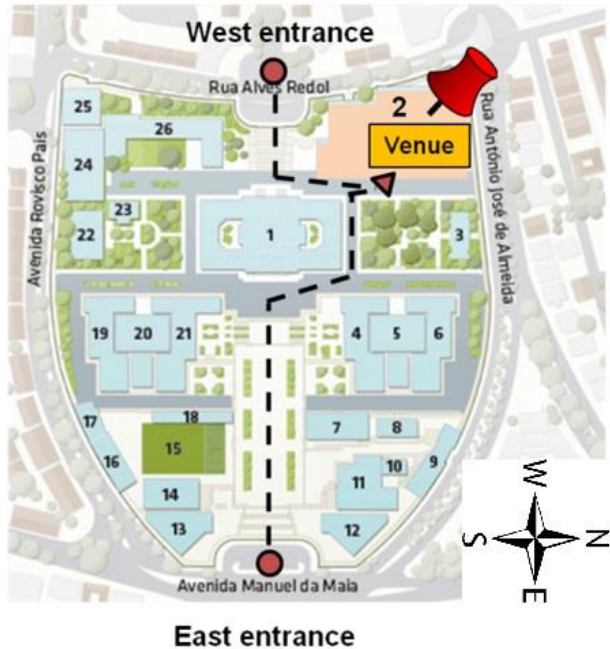
Programme Schedule

	Tuesday, Sept. 20	Wednesday, September 21	Thursday, September 22	Friday, September 23
8:35		Registration		
8:45				
9:00		Opening Ceremony	I.5 - Burkov	I.9 - Madsen
9:15		I.1 - Morelli	A5-8.1- Meroz	A7.6- Kovalevsky
9:30			A5-8.2- Kitamura	A7.7- Weidenkaff
9:45	A2.1- Bandaru	A1.1- P. Rogl	A5-8.3- Lee	A7.8- Ekren
10:00	A2.2- Nishide	A1.2- G. Rogl	A5-8.4- Kyratsi	A7.9- Kulwongwit
10:15	A2.3- Voronin	A1.3- Caillat	A5-8.5 Yabuuchi	A7.10- Cerretti
10:30	A2.4- Kratzer	A1.4- Prado-Gonjal	A5-8.6- Symeou	A7.11- Baran
10:45		Coffee Break		Coffee Break
11:05		I.2 - Stockholm		I.6 - Fanciulli
11:35	TFT.1- Ferreira	C2.1- Aixala	A11.1- Andrei	C1.6- Dimaggio
11:50	TFT.2- Juntunen	C2.2- Lorenzi	A11.2- Salez	C1.7- Pacheco
12:05	TFT.3- Bari	C2.3- Ibañez-Puy	A11.3- Berthebaud	C1.8- Miranda
12:20	TFT.4- Tappura	C2.4- Schönecker	A11.4- Mori	C1.9- Reith
12:35	TFT.5- Yu	C2.5- Araiz	A11.5- Laux	C1.10- Vaccaro
12:50		Lunch		Lunch
14:00		Poster Session		
14:15				B1.2- Kim
14:30		Parallel Session		B1.3- Garcia-Cañadas
14:45		TE-activities in EU		B3.2- Boucher
15:00		I.3 - Suekuni	I.7 - Crane	I.11 - Løvvik
15:30	A9.1- Serrano-Sánchez	C1.1- Woerner	A10.1- Cho	C2.11- Bianchi
15:45	A9.2- Sever	C1.2- Meng	A10.2- Goñi	C2.12- Heijer
16:00	A9.3- Mangelis	C1.3- Nong	A10.3- Galliani	C2.13- Oliveira
16:15	A9.4- Battiston	C1.4- Phillips	A10.4- Gómez	C2.14- Mullen
16:30	A9.5- Maignan	C1.5- Hendricks	A10.5- Gall	C2.15- Osipkov
16:50		Coffee Break		Coffee Break
17:05		I.4 - Hébert		I.8 - Aydemir
17:35	A7.1- Kitajevs	C2.6- Semenyuk	A3-6.1- Yamada	A1.5- Benyahia
17:50	A7.2- Delorme	C2.7- Zulian	A3-6.2- Woods	A1.6- Grytsiv
18:05	A7.3- Loureiro	C2.8- Montecucco	A3-6.3- Nuss	A1.7- Novikov
18:20	A7.4- Uenuma	C2.9- Ahrendts	A3-6.4- Tomeš	A1.8- Hung
18:35	A7.5- Baranovskiy	C2.10- Seo		
18:50				
20:00			Conference Dinner	
				Closing Ceremony

Venue

The 14th European Conference on Thermoelectrics will be held at the Congress Center of Instituto Superior Técnico (IST) Alameda Campus, located at the Civil Engineering Pavilion, from Tuesday to Friday, September 20-23, 2016.

1. Central Building
2. Civil Engineering Building
3. North Garden Building
4. Mechanical Engineering Building I
5. North Tower
6. Electrical Engineering Building
7. Informatics Building II
8. Mechanical Engineering Building IV
9. Informatics Building I
10. Informatics Building III
11. Mechanical Engineering Building II
12. Mechanical Engineering Building III
13. Canteen
14. Student Association Building
15. Games Campus
16. Pool
17. Social Association Building
18. Copy Centre
19. Mine Engineering Building
20. South Tower
21. Chemical Engineering Building
22. South Garden Building
23. Children Garden
24. Building of Mathematics
25. Building of Physics
26. Interdisciplinary Complex



Room ECT-A (Auditorium)	Opening Ceremony, Invited, Session II, Closing Ceremony
Room ECT-B	Session I, Parallel Session TE Activities in EU



Wednesday, September 21, 2016

8:35	Registration	
8:45		
9:00	Opening Ceremony	
9:15	I.1 - Structure, bonding and anharmonicity in tetrahedrite-based thermoelectrics D. Morelli	
9:45	Session I - A2. Heusler-based phases Chair: E. Müller	Session II - A1. Skutterudites Chair: K. Wojciechowski
	OA2.1 - Theoretical and experimental investigation of the electronic structure and thermoelectric properties of Fe ₂ VAl S. Bandaru	OA1.1 - Skutterudites Ba _y Ni ₄ (Sb _{1-x} Sn _x) ₁₂ ; rattling features? P. Rogl
10:00	OA2.2 - Large Seebeck coefficient in a novel thermoelectric V doped Fe ₂ TiSi Full Heusler alloy A. Nishide	OA1.2 - Attempts to further enhance ZT in skutterudites via nano-composites G. Rogl
10:15	OA2.3 - Fe ₂ TiSn _{1-x} Si _x Heusler alloys: influence of sintering conditions on crystal structure and thermoelectric properties A. Voronin	OA1.3 - Thermoelectric Properties of Skutterudite Materials Made from Lower Purity Elements T. Caillat
10:30	OA2.4 - Role of point defects for thermoelectric properties of ZrNiSn and ZrCoBi P. Kratzer	OA1.4 - Effect of framework substitution on the thermal conductivity of skutterudites J. Prado-Gonjal
10:45	Coffee Break	
11:05	I.2 - Applications in thermoelectricity J. Stockholm	
11:35	Session I - TFT Chair: J. Loureiro	Session II - C2. Applications Chair: D. Crane
	TFT.1 - AZO thin films deposited by ALD showing state of art thermoelectric properties I. Ferreira	OC2.1 - Thermoelectric energy harvesting system for aluminium electrolysis industry: system design, manufacturing and test in industrial environment L. Aixala
11:50	TFT.2 - Flexible thermoelectric sensor for thermal mapping T. Juntunen	OC2.2 - Computational and experimental evaluation of solar cell thermoelectric hybridization: a multi-parametric approach B. Lorenzi
12:05	TFT.3 - TransFlexTeg: Large area transparent thin film thermoelectric devices for smart window and flexible applications M. Bari	OC2.3 - Cooling performance of a thermoelectric façade prototype M. Ibañez-Puy
12:20	TFT.4 - Computational design of thin-film thermoelectric devices for large area applications K. Tappura	OC2.4 - Application of silicide based, cost efficient thermoelectric generators for high temperature waste heat recovery A. Schönecker
12:35	TFT.5 - Thermoelectric properties of Al-doped ZnO based on ab-initio method and molecular dynamics L. Yu	OC2.5 - Computational and experimental study on thermoelectric generators using thermosyphons as heat exchangers M. Araiz



Wednesday, September 21, 2016

12:50	Lunch	
14:00	Poster Session	
14:30	Parallel Session TE Activities in EU	
15:00	I.3 - Cu-S based synthetic minerals promising as medium-high temperature thermoelectric materials K. Suekuni	
	Session I – A9. Selenides and Sulfides Chair: D. Morelli	Session II – C1. Modules and thermoelectric generators Chair: G. Min
15:30	OA9.1 - Thermoelectric properties of nanostructured SnSe derivatives prepared by arc-melting technique F. Serrano-Sánchez	OC1.1 - Year Four on Mars: An Update on the Multi-Mission Radioisotope Thermoelectric Generator Powering the Curiosity Rover D.F. Woerner
15:45	OA9.2 - Non-stoichiometry in TiS₂-based thermoelectrics induced by pulsed-electric-current sintering T. Sever	OC1.2 - Relationship between flow rate of counter-flowing thermal fluids and thermoelectric performance X. Meng
16:00	OA9.3 - The effect of electron and hole doping on the thermoelectric properties of the shandite Co₃Sn₂S₂ P. Mangelis	OC1.3 - Recent Developments in High Performance Thermoelectric Modules for Waste Heat Harvesting N. Van Nong
16:15	OA9.4 - Scalable fast route for Ni and Zn doped tetrahedrite thermoelectric material production S. Battiston	OC1.4 - Towards cost effective and efficient energy generating skutterudite thermoelectric modules and the use of computational modelling to predict their properties M. Phillips
16:30	OA9.5 - Investigation of some new sulfides based thermoelectric materials A. Maignan	OC1.5 - Heat Exchanger Performance Impacts on Optimum Cost Conditions in Thermoelectric Energy Recovery Designs T.J. Hendricks
16:50	Coffee Break	
17:05	I.4 - The specificities of oxides thermopower investigated in some ruthenates and hollandites S. Hébert	
	Session I – A7. Oxides Chair: A. Weidenkaff	Session II – C2. Applications Chair: J. Stocholm
17:35	OA7.1 - Effect of sintering aids and annealing time on the thermoelectric properties of Sr_{0.61}Ba_{0.39}Nb₂O_{6-δ} J. Kitajevs	OC2.6 - Optimal Integration of Cascade Thermoelectric Cooler into electronic Housing V. Semenyuk
17:50	OA7.2 - Promising thermoelectric properties of oxygen deficient (K,Na)NbO₃ ceramics F. Delorme	OC2.7 - Autonomous temperature monitoring: application of thermal harvesting to food control L. Zuilian
18:05	OA7.3 - Metal oxides thin films for transparent thermoelectric applications J. Loureiro	OC2.8 - Experimental application of distributed maximum power point tracking to a thermoelectric system for hot gas A. Montecucco
18:20	OA7.4 - Thermoelectric Properties of Amorphous InGaZnO Thin Film M. Uenuma	OC2.9 - Thermoelectric energy recuperation for aviation jet engines – Module design and installation F. Ahrendts
18:35	OA7.5 - Dependence of thermoelectric properties of CaO(CaMnO₃)_m (m=1,2,3,∞) based oxides on lattice periodicity A. Baranovskiy	OC2.10 - A Compact Thermoelectric Air Cooler for Vehicles S.R. Seo



Thursday, September 22, 2016

8:45	I.5 – Silicide thermoelectrics: recent progress in research A.T. Burkov	
	Session I – A5. Bismuth and related materials, A8. Silicides Chair: M. Fabrizio.	Session II – A7. Oxides Chair: S. Hébert
9:15	A5-8.1 - Increasing the figure of merit of $Bi_2Te_xSe_{3-x}$ alloy for thermoelectric power generation applications by optimization of the preparation process O. Meroz	A7.6 - Design of structural defects in $SrTiO_3$-based materials for enhanced thermoelectric performance A. Kovalevsky
9:30	A5-8.2 - Thermoelectric Properties of Isotropic $Bi_xSb_{2-x}Te_3$ by Mechanical Alloying and Followed by Hot Pressing M. Kitamura	A7.7 - Materials for high temperature thermoelectric converters A. Weidenkaff
9:45	A5-8.3 - Fabrication of large scale Bi-Te based materials using gas atomization and spark plasma sintering process C.H. Lee	A7.8 - Improved Thermoelectric Properties of $Sr_{0.9}Nd_{0.1}TiO_3$ co-doped with Boron and Zirconium D. Ekren
10:00	A5-8.4 - Recycling Si kerf from Photovoltaics to Thermoelectrics T. Kyratsi	A7.9 - The effect of stoichiometry on the crystal structure and thermoelectric properties of $Bi_{2+x}Sr_2Co_2O_y$ N. Kulwongwit
10:15	A5-8.5 - First-principles study on thermal conductivity, Seebeck coefficient and electrical conductivity of Ca_3Si_4 Shin Yabuuchi	A7.10 - An innovative n-type thermoelectric oxide: the adaptive structure of the tetragonal tungsten bronzes $Nb_{8-x}W_{9+x}O_{47}$ G. Cerretti
10:30	A5-8.6 - High Thermoelectric Performance of p-type $Bi_{0.5}Sb_{1.5}Te_3$ Bulk Alloys E. Symeou	A7.11 - Crystal and Electronic Structure of Thermoelectric $[Bi_{0.87}SrO_2]_2[CoO_2]_{1.82}$ J.D. Baran
10:45	Coffee Break	
11:05	I.6 – Mechanical processing of thermoelectric materials: a solution for material texture inducing C. Fanciulli	
	Session I – A11. New materials Chair: U. Aydemir	Session II – C1. Modules and thermoelectric generators Chair: D. Narducci
11:35	A11.1 - Prospects of development in thermoelectricity: flexible composites, nanostructures and hybrid devices V. Andrei	C1.6 - Thermal and electrical characterization of silicon nanowires forests for thermoelectric generation E. Dimaggio
11:50	A11.2 - Magnetic-field enhanced thermoelectric coefficient in ferrofluids T.J. Salez	C1.7 - Thermoelectric properties of doped n-$Mg_2Si_{0.4}Sn_{0.6}$ and p-$MnSi_{1.81}$ and their processing into thin-thermoelectric chips. V. Pacheco
12:05	A11.3 - New chalcogenides materials in Ba-T-Se systems D. Berthebaud	C1.8 - Design and Microfabrication of Highly Doped Silicon-Germanium Thermoelectric Modules for 500°C Operation F. Mirando
12:20	A11.4 - p, n control in thermoelectric borides and sulfides T. Mori	C1.9 - Bi_2Te_3-based micro thermoelectric cooler fabrication by electrochemical deposition H. Reith
12:35	A11.5 - Development of Thermoelectric generator based on Ionic Liquids for high temperature applications E. Laux	C1.10 - SiGe thermoelectric far-infrared sensors P. O. Vaccaro



Thursday, September 22, 2016

12:50	Lunch	
14:00	Poster Session	
15:00	I.7 - Thermoelectric applications: from automotive to oil & gas, highlighting design, modeling & testing methodology D. Crane	
	Session I - A10. Organics Chair: F. Gascoin	Session II - C2. Applications Chair: J. Köning
15:30	A10.1 - Flexible thermoelectric generators using organic materials by printing process S.Y. Cho	C2.11 - V₂O₅ Thin films seebeck coefficient optimization and application in flexible and transparent temperature sensor C. Bianchi
15:45	A10.2 - Photoinduced p- to n-type Switching in Thermoelectric Polymer-Carbon Nanotube Composites A.R. Gofii	C2.12 - Waste heat recovery at scale: a system approach to bring a sizeable re-use of high temperature industrial waste heat to reality M. den Heijer
16:00	A10.3 - Thermoelectric properties of PEDOT nanocomposites with electrochemically tuned oxidation state D. Galliani	C.2.13 - Maximizing Efficiency under Variable Thermal Load using Temperature-controlled Exhaust Thermoelectric Generators J. Oliveira
16:15	A10.4 - Conducting polymers and hybrids films as thermoelectric materials C.M. Gómez	C2.14 - Thermoelectric triggering of a phase-change heat battery P. Mullen
16:30	A10.5 - Materials for roll-to-roll printed organic TEGs: Why ZT is not the most important factor A. Gall	C2.15 - Effectiveness of thermoelectric generators mounted into exhaust tract of internal combustion engine A.S. Osipkov
16:50	Coffee Break	
17:05	I.8 - Chain-forming zintl phases as promising thermoelectric materials U. Aydemir	
	Session I - A3. Clathrates & A6. Zintl Phases Chair: P. Rogl	Session II - A1. Skutterudites Chair: C. Candolfi
17:35	A3-6.1 - Thermoelectric properties of a sodium indium tin compound T. Yamada	A1.5 - In_{0.25}Co₄Sb₁₂ nanocomposites with improved ZT M. Benyahia
17:50	A3-6.2 - Type II Sn clathrates – unexpected outcomes from cage disorder and gas encapsulation L.M. Woods	A1.6 - Long term stability tests on commercially produced skutterudites A. Grytsiv
18:05	A3-6.3 - Thermoelectric properties of the ternary phosphide Ag₆Ge₁₀P₁₂ J. Nuss	A1.7 - Thermoelectric properties of melt-spun and crystalline Co₄Sb_{11.6}Te_{0.4} ribbons S.V. Novikov
18:20	A3-6.4 - Physical properties of the new rare earth clathrates Ba_{8-x}Eu_xAu_ySi_{16-y} P. Tomeš	A1.8 - Thermoelectric properties and stability of filled skutterudite materials under large temperature gradient and thermal cycling L.T. Hung
20:00	Conference Dinner	



Friday, September 23, 2016

8:45	I.9 - Design strategies for thermoelectric half-Heusler compounds G.K.H. Madsen	
	Session I – A12. Nanomaterials Chair: C. Fanciulli	Session II – B2. Optimizing the figure of merit B1. Measuring techniques Chair: O.L. Løvvik
9:15	A12.1 - Thermoelectric properties of electrodeposited Bi_{0.5}Sb_{1.5}Te₃ nanowires in polycarbonate membranes C. Boulanger	B2.1 - Phonon filtering in silicon: the combined effect of internal surfaces and voids D. Narducci
9:30	A12.2 - Nanostructured Yb_xCo_xSb₁₂ skutterudites E. Alleno	B2.2 - Reducing the lattice thermal conductivity by driving PbTe and its alloys to the verge of the ferroelectric phase transition R. Murphy
9:45	A12.3 - Production of thermoelectric thin film to energy harvesting using ion beam deposition technique A.L. Pires	B2.3 - High thermoelectric and electronic performance in graphene nanoribbons by isotope and vacancy engineering V.-T. Tran
10:00	A12.4 - Towards efficient thermoelectric performance in silicon by point- and extended-defects N.M. Wight	B2.4 - Enhanced thermoelectric properties of spark plasma sintered p-type Si_{0.8}Ge_{0.2} bulk alloys A. Usenko
10:15	A12.5 - LPCVD in-situ doped silicon for thermoelectric applications J. Calvo	B2.5 - Nanostructured Bi₂Te₃ compounds prepared by arc-melting technique N.M. Nemes
10:30	A12.6 - The role of functional interfaces to enhance figure of merit in Skutterudite Nanocomposites M. Rull	B1.1 - Metrology of thermoelectric properties of materials, precision and performance improvement methods V.V. Lysko
10:45	Coffee Break	
11:05	I.10 - SnTe: an "old" new thermoelectric material C. Candolfi	
	Session I – A4. Tellurides Chair: C. Caballero	Session II – C1. Modules and thermoelectric generators Chair: T. Hendricks
11:35	A4.1 - Electronic structure and thermoelectric properties of As₂Te₃ studied from first principles B. Wiendlocha	C1.11 - μTEGs with copper and tellurium as p-type materials U. Pelz
11:50	A4.2 - Synthesis of AgSbTe₂-based thermoelectric compounds by rapid solidification and hot pressing A. Castellero	C1.12 - Enhanced platforms for Si NWs based thermoelectric generators C. Calaza
12:05	A.4.3 - Materials for high temperature thermoelectric power generation (>1100 K) J.-P. Fleurial	C.1.13 - Dispenser printed flexible and full organic thermoelectric generators J. Leisten
12:20	A4.4 - Influence of powder size on thermoelectric properties of p-type 25%Bi₂Te₃-75%Sb₂Te₃ alloys fabricated using gas-atomization and spark-plasma sintering processes P. Dharmiah	C1.14 - Conditions to achieve the real maximum power point in thermoelectric generator systems E.A. Man
12:35	A4.5 - Thermoelectric properties of PbTe films and PbTe-based superlattices A. Ishida	C1.15 - Testing and evaluation of electrical contact resistance for thermoelectric legs D. Platzek



Friday, September 23, 2016

12:50		Lunch	
	Session I – B1. Measuring techniques Chair: E. Alleno		Session II - B3. Theory and Modelling Chair: G.K.H. Madsen
14:15	B1.2 - Precise measurement on thermoelectric device performance by using active temperature control on a heater in the heat source W. Kim	B3.1 - Calculating the power factor of nano-composite materials from fully quantum-mechanical large-scale simulations M. Thesberg	
14:30	B1.3 - Measurement of thermal conductivity with thermoelectric modules J. García-Cañadas	B3.2 - Promising thermoelectric properties of the hypothetical binary ME₃ compounds B. Boucher	
14:45	B1.4 - Measuring the efficiency of thermoelectric generators: accuracy and methods for heat flow determination P. Ziolkowski	B3.3 - Effect of alloying and doping on electronic structure and crystal stability in tetrahedrites and tennantites from KKR-CPA method J. Tobola	
15:00	I.11 - Predicting the thermoelectric figure of merit from first principles O.M. Løvvik		
	Session I - A9. Selenides and Sulfides Chair: K. Suekuni		Session II - B3. Theory and Modelling Chair: J. Tobola
15:30	A9.6 - Thin films of Cu₂Se with high thermoelectric efficiency grown by pulse controlled reactive sputtering O. Caballero-Calero	B3.4 - Examining the effectiveness of energy-filtering in 1D vs. 2D structures using quantum mechanical transport simulations N. Neophytou	
15:45	A9.7 - Microstructure and thermoelectric properties of mixtures of natural and synthetic tetrahedrite P. Levinsky	B3.5 - Optimization design of thermoelectric power generation for maximum W per \$: the competitive relation between high figure of merit and high-performance heat exchanger S. Qing	
16:00	A9.8 - Influence of selenium for sulfur substitution on high temperature thermoelectric properties of Bornite V.P. Kumar	B3.6 - Electronic and thermoelectric properties of impurity doped Mg₂Si incorporating Mg-related defects N. Hirayama	
16:15	I.12 - Thermoelectric interfaces: characterisation and evaluation for manufacturing high-quality thermoelectric modules G. Min		
16:50	Coffee Break		
17:05	I.13 - Topology – and thermoelectric properties in Heusler compounds C. Felser		
17:35	Closing Ceremony		
17:50			
18:20			



Poster Session

A1. Skutterudites

PA1.1	<i>Transport and thermoelectric properties of p-type double-filled $R_{1-z}R'_zFe_{4-x}Co_xSb_{12}$ (R or R': Pr, Nd, Yb) skutterudites</i> D.-K. Shin , I.-H. Kim
PA1.2	<i>Thermoelectric properties of $(La/Ce)_{1-z}(Pr/Nd)_zFe_{4-x}Co_xSb_{12}$ skutterudites</i> K.-M. Song , D.-K. Shin, I.-H. Kim
PA1.3	<i>Glass coating/$CoSb_3$ interface: characterization by transmission electron microscopy</i> K. Zawadzka , E. Godlewska, O. Kryshstal, M. Nocun, A. Czyrska-Filemonowicz, Marcin Chmielewski, and Rafał Zybala
PA1.4	<i>High-temperature degradation study of $Fe_{4-x}Co_xSb_{12}$ filled skutterudites</i> Iu. Kogut, V. Ohoroniidchuck , C. Candolfi, P. Masschelein, A. Dauscher, A. Jacquot, B. Lenoir
PA1.5	<i>Towards band gap engineering in skutterudites: the role of X_4 rings geometry in $CoSb_3$-$RhSb_3$ system</i> K.T. Wojciechowski

A4. Tellurides

PA4.1	<i>Nanostructuring effects on the thermoelectric properties of n-type $(Bi_{0.95}Sb_{0.05})_2(Te_{0.95}Se_{0.05})_3$</i> T. Zhou, V. Kosalathip, C. Chubilleau, B. Lenoir, A. Dauscher
PA4.2	<i>Influence of synthesis processes on the thermoelectric properties of $SnTe$</i> D. Ibrahim , C. Candolfi, V. Ohorodniichuk, P. Masschelein, A. Dauscher, B. Lenoir
PA4.3	<i>Enhanced thermoelectric properties in Bi-Sb-Te based composites with Y_2O_3 nanoparticles</i> E.B. Kim , B. Madavali, J. M. Koo, K. W. Koo, S. J. Hong
PA4.4	<i>Enhancing the figure of merit of GeTe-based thermoelectric materials</i> A. Kumar , P.A. Vermeulen, B.J. Kooi, T.T.M. Palstra and G.R. Blake



PA4.5	<i>Thermoelectric properties of iodine-doped β-As₂Te₃</i> J.-B. Vaney, G. Delaizir, A. Pradel, A. Piarristeguy, E. Alleno, J. Monnier, E.B. Lopes, A.P. Gonçalves, C. Candolfi, A. Dauscher, B. Lenoir
PA4.6	<i>Thermoelectric characterization of compounds with the composition $(Ge_{1-x}Sn_x)_yBi_2Te_{y+3}$</i> F. Nietschke , M. Schellschmidt, O. Oeckler
PA4.7	<i>Unravelling the domain structures in GeTe and LaAlO₃</i> P.A. Vermeulen , A. Kumar, G.H. ten Brink, G.R. Blake, B.J. Kooi
PA4.8	<i>Optimization of ball milling parameters for production of high efficient p-type Bi₂Te₃ thermoelectric materials</i> S. M. Yoon , M. L. Lwin, K. Y. Jeong, S. J. Hong

A5. Bismuth and related materials

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A8. Silicides

PA5-8.1	<i>Influence of CuI doping on the thermoelectric effect of Bi₂Te₃</i> M.-K. Han, Y. Jin, H. Hwang, S.-J. Kim
PA5-8.2	<i>Thermoelectric properties of iodine-doped Bi₂Te_{3-y}Se_y solid solutions prepared by mechanical alloying and hot pressing</i> A-Y. Eum , I.-H. Kim
PA5-8.3	<i>Mechanical and thermoelectric properties of Bi_{2-x}Sb_xTe₃ prepared by encapsulated melting and hot pressing</i> W.-J. Jung , Il-Ho Kim
PA5-8.4	<i>Development of forming process and electrical characterization of electrodes for Mg₂Si</i> K. Ikeda , I. Tsutomua, N. Hirayama, K. Nishio, Y. Kogo
PA5-8.5	<i>Synthesis and thermoelectric properties of composite Mg₂Si_{0.4-x}Sn_{0.6}Bi_x with addition of Yb or SiC nanoparticles</i> G. Pöhle , V. Pacheco, T. Weißgärber, M. Beig Mohamadi, A. H. Tavabi, R. Dunin-Borkowski, B. Kieback



PA5-8.6	<i>Powder size and annealing effects on $\text{Bi}_2\text{Te}_{3-x}\text{Se}_x$ alloys fabricated by hot-extrusion technique</i> I.-J. Roh , B. Kwon, C. Park, D.-B. Hyun, J.-S. Kim
PA5-8.7	<i>Flash sintering of magnesium silicide stannide</i> B. Du, F. Gucci , H. Porwal, S. Grasso. M.J. Reece
PA5-8.8	<i>High thermoelectric figure of merit in n-type Bi-Te alloys at low temperatures</i> D.H. Kim , J.Y. Baek, I. Hwang, C. Kim, D.K. Yoon, H. Kim
PA5-8.9	<i>Industrially scalable production of micro thermoelectric generators (μTEG) through screen printing</i> I.F. Cruz , A.L. Pires, J. Silva, J. Fonseca, A.M. Pereira
PA5-8.10	<i>$\text{Bi}_{0.5}\text{Sb}_{1.5}\text{Te}_3$ thin films with bulk-like thermoelectric properties on glass and flexible substrates</i> E. Symeou , Ch.Nicolaou and J. Giapintzakis
PA5-8.11	<i>Thermoelectric properties of Cu/In doped Bi_2Te_3 based alloys prepared by zone melting</i> D. Liu , X. Li, C. Dreßler, S. Teichert, M. Rettenmayr
PA5-8.12	<i>Nanotwin engineering by Ag doping in bismuth telluride-based thermoelectric materials</i> J.K. Lee , B.K. Ryu, S.D. Park, K.J. Kong, H. Kim, J.E. Lee, B.S. Kim, B.K. Min, H.W. Lee, G. Schierning, K. Nielsch

A7. Oxides

PA7.1	<i>Electrical and thermal transport properties of crystallographic shear-plane transition metal oxides</i> I. Veremchuk , F. Kaiser, G. Kieslich, W. Tremel, Yu. Grin
PA7.2	<i>Thermoelectric properties of B_2O_3 doped $\text{Ga}_2\text{O}_3(\text{ZnO})_m$ homologous compound</i> D.T. Alvarez-Ruiz , F. Azough, R. Freer, D. H. Maldonado, D.M. Kepaptsoglou, Q. M. Ramasse
PA7.3	<i>Technological options to tune electrical conductivity of titanium suboxide – an experimental approach</i> B. Feng , H.-P. Martin, A. Michaelis



PA7.4	<i>Improving Ca₃Co₄O₉ performances through a new sintering method</i> A. Sotelo , F.M. Costa, N.M. Ferreira, A. Kovalevsky, M.C. Ferro, Sh. Rasekh, M.A. Torres, M.A. Madre, J.C. Diez
PA7.5	<i>Towards higher zT in metal oxides: playing with the “x” in WO_{3-x} compounds</i> G. Cerretti , G. Kieslich, B. Balke, W. Tremel
PA7.6	<i>Microstructure and thermoelectric properties of n-type doped CaMnO_{3-δ}</i> R. Löhnert , T. Reimann, S. Teichert, J. Töpfer
PA7.7	<i>Thermoelectric properties of Fe₂(Ti_{1-x}Nb_x)O₅ ceramics</i> C. Chen , F. Giovannelli, J.R. Duclere, F. Delorme
PA7.8	<i>Thermoelectric properties of sol-gel derived Gd-doped Sr₃Ti₂O₇ sintered by SPS</i> A. Bahezre , D. Bregiroux, C. Laberty-Robert
PA7.9	<i>Thermoelectric properties of Ba₂Co₉O₁₄ layered cobalt oxide</i> C. Chen , F. Schoenstein, B. Pignon, F. Giovannelli, F. Delorme
PA7.10	<i>Spin Seebeck effect in Y-hexagonal ferrite thin films</i> J. Hirschner, K. Knížek , R. Uhrecký, J. Buršík, A. Anadón, M.H. Aguirre
PA7.11	<i>Nanostructure effect on thermoelectric properties of amorphous-InGaZnO thin film</i> Y. Tawa , M. Uenuma, Y. Fujimoto, N. Okamoto, Y. Ishikawa, Y. Ichiro, Y. Uraoka
PA7.12	<i>Thermoelectrical properties of single phase cuprous oxides from annealed Cu thin films</i> J. Figueira , J. Loureiro, C. Bianchi, D. Sousa, P. Duarte, J. Marques, I. Ropio, M. Ruoho, I. Tittonen, I. Ferreira
PA7.13	<i>Anomalous photo-thermoelectric effects of platinum-loaded tungsten trioxide</i> H. Irie , K. Suzuki, T. Watanabe, H. Kakemoto



PA7.14	<i>Thermoelectric property of layered rhodium oxide, $\text{Bi}_2\text{Sr}_2\text{Rh}_2\text{O}_x$</i> T. Watanabe , H. Kakemoto, H. Irie
PA7.15	<i>The tuning of BiCuSeO band structure by Nd doping</i> A. Novitskii , A. Voronin, L. Shvanskaya, D. Moskovskikh, V. Khovaylo, A. Vasiliev
PA7.16	<i>Effect of Sodium substitution on the thermoelectric properties of $\text{Bi}_2\text{Sr}_2\text{Co}_{1.8}\text{O}_x$ ceramics</i> G. Çetin Karakaya, B. Özçelik , O. Nane, A. Sotelo, Sh. Rasekh, M. A. Torres, M. A. Madre
PA7.17	<i>Improvement of $\text{Bi}_2\text{Sr}_2\text{Co}_2\text{O}_x$ thermoelectric performances by K doping</i> G.Çetin Karakaya, B. Özçelik, O. Nane , A. Sotelo, Sh. Rasekh, M.A. Torres, M.A. Madre
PA7.18	<i>High thermoelectric performances obtained by laser technology</i> N.M. Ferreira , Sh. Rasekh , M.A. Torres, M.A. Madre, J.C. Diez, A. Sotelo, F.M. Costa
PA7.19	<i>Optimization of solid-state-reactions of calcium cobaltite $\text{Ca}_3\text{Co}_4\text{O}_9$</i> S. Bresch , B. Mieller, T. Rabe
PA7.20	<i>Effect of Na substitution in directionally grown $\text{Bi}_2\text{Sr}_2\text{Co}_2\text{O}_x$ ceramics</i> G.Çetin Karakaya , B. Özçelik, O. Nane, A. Sotelo, Sh. Rasekh, M.A. Torres, M.A. Madre

A9. Selenides and Sulfides

PA9.1	<i>Thermoelectric properties of densified misfit-layered sulfides $[\text{Ln}_2\text{S}_2]_p\text{NbS}_2$ ($\text{Ln} = \text{Lanthanides}$)</i> K. Ishii , K. Hayashi, Y. Miyazaki
PA9.2	<i>Thermoelectric properties of the homologous compounds $(\text{PbSe})_5(\text{Bi}_2\text{Se}_3)_{3m}$ ($m = 2 \text{ and } 3$)</i> S. SASSIA , C. Candolfi, V. Ohorodniichuk, A. Dauscher, B. Lenoir



PA9.3	<i>Oxidation studies of tetrahedrites</i> A.P. Gonçalves , E.B. Lopes, L.M. Ferreira, M.F. Montemor, J. Monnier
PA9.4	<i>Tetrahedrite synthesis by glass crystallization</i> E.B. Lopes , A.P. Gonçalves, J. Monnier, J. Bourgon, J.-B. Vaney, A. Piarristeguy, A. Pradel, B. Lenoir, G. Delaizir, M.F.C. Pereira, E. Alleno, C. Godart
PA9.5	<i>Thermoelectric properties of some sulphides with mineral-related crystal structures</i> R. Gumeniuk , I. Veremchuk, W. Schnelle, M. Bobnar, T. Weigel, T. Leisegang, A. Leithe-Jasper
PA9.6	<i>Tetrahedrite solvothermal synthesis for thermoelectric applications</i> S. Fiameni , S. Fasolin, S. Battiston, C. Fanciulli, A. Famengo, M. Fabrizio
PA9.7	<i>High-temperature thermoelectric properties of colusites $Cu_{24}Ni_2V_2Ge_6S_{32}$ and $Cu_{24}Co_2V_2Ge_6S_{32}$</i> Y. Bouyrie, C. Candolfi, V. Ohorodniichuk, P. Masschelein , A. Dauscher, B. Lenoir

A10. Organics

PA10.1	<i>ZT value determination of tetrathiotetracene based organic thin films</i> K. Pudzs , A. Vembris, M. Rutkis, J. Busenbergs
PA10.2	<i>Solution synthesis of telluride-based nano-barbell structures coated with PEDOT:PSS for spray-printed thermoelectric generators</i> Y.H. Kang , E.J. Bae, C. Lee, S.Y. Cho
PA10.3	<i>Structure and doping engineering in PEDOT films for printed and flexible thermoelectric generators</i> E. Yvenou , A. Carella, M.N. Gueye, J.-P. Simonato
PA10.4	<i>Synthesis of processable n-type polymers</i> R. Tkachov , L. Stepien, A. Roch, J. Leisten, C. Leyens

PA10.5	<p><i>Influence of thermal environment on the thermoelectric performance and stability of PEDOT:PSS</i></p> <p>L. Stepien, R. Tkachov, J. Leisten, A. Roch, C. Leyens</p>
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A11. New materials

PA11.1	<p><i>Crystal structure and high temperature thermoelectric properties of $La_{1/3}NbO_3$ perovskite</i></p> <p>D. Ekren, D. Srivastava, F. Azough, R. Freer, D.M. Kepaptsoglou, Q.M. Ramasse, M. Molinari, J.D. Baran, S.C. Parker</p>
PA11.2	<p><i>Novel nitride thin films in the Sc-M-N ($M = Nb, Ta$) system for thermoelectric applications</i></p> <p>A. Le Febvrier, S. Kerdsonpanya, N. Tureson, P. Eklund</p>
PA11.3	<p><i>Synthesis and modification of the structure of the ionic liquids to optimize their thermoelectric properties</i></p> <p>P. Pérez, Q. Recordon, P. Sanglard, R. Marti, E. Vanoli</p>
PA11.4	<p><i>Structural and physical properties of Y and Yb boron-rich compounds</i></p> <p>L. Salamakha, O. Sologub, B. Stöger, P. Rogl, H. Michor, E. Bauer</p>
PA11.5	<p><i>On the structural and TE properties of Zr doped β-rhombohedral boron</i></p> <p>O Sologub, T. Mori, L. Salamakha, B. Stöger, Y. Michiue</p>
PA11.6	<p><i>Characterization of electrodeposited $Bi_2(Te_xSe_{1-x})_3$ and $(Bi_xSb_{1-x})_2Te_3$ thick films for integrated thermal management applications</i></p> <p>N. Pérez, J. García, M. Mohn, T. Sieger, H. Schlörb, H. Reith, G. Schierning, K. Nielsch</p>
PA11.7	<p><i>Ball milling effect on the thermoelectric properties of glass-ceramic Cu-As-Te materials</i></p> <p>C. Morin, J. Monnier, J.-B. Vaney, A. Piarristeguy, J. Carreaud, G. Delaizir, C. Candolfi, B. Lenoir, A.P. Gonçalves, E.B. Lopes, A. Pradel, A. Dauscher, E. Alleno</p>

A12. Nanomaterials

PA12.1	<p><i>Thermoelectric enhancement in the two-dimensional electron gas of AlGaN/GaN heterostructures</i></p> <p>K. Nagase, K. Nakahara</p>
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PA12.2	<i>Nanoarchitecting to induce flexibility in $\text{Ca}_3\text{Co}_4\text{O}_9$ thin films for flexible thermoelectric applications</i> B. Paul , J. Lu, P. Eklund
PA12.3	<i>Synthesis of nanostructured, cadmium doped ZnSb and investigation of the thermoelectric properties</i> J. Peilstöcker , E. Günes, O. Falkenbach, E. Müller, M.S. Wickleder
PA12.4	<i>Thermal diffusivity of flexible material with ZnO nanostructures</i> H. Ikeda , M. Wanami, Y. Ota, S. Shanthi, Y. Suzuki, V. Pandiyarasan, F. Salleh, M. Navaneethan, M. Shimomura, K. Murakami
PA12.5	<i>Synthesis and characterisation of boron rich boron carbide containing nano-TiB₂ inclusions for thermoelectric applications</i> P. Ponnusamy , B. Feng, P. Groen
PA12.6	<i>Realizing band structure modification and energy filtering in $\beta\text{-Zn}_4\text{Sb}_3$ based nanocomposites</i> T. Zou , W. Xie, X. Qin, X. Xiao, A. Weidenkaff
PA12.7	<i>Skutterudite (CoSb_3) thermoelectric nanomaterials fabricated by pulse plasma in liquid</i> R. Zybala , M. Schmidt, K. Kaszyca, M.J. Kruszewski, K. Pietrzak, T. Ciupiński
PA12.8	<i>The synthesis & property of artificial meta-stated telluride and silicide compound</i> S. Park , H. Kim, M. Lee, B. Ryu, J. Jang, J. Lee, H. Lee
PA12.9	<i>Diffusive and ballistic phonon transport in GaP nanowires</i> D. Vukulov , R. Chavez, M.Y. Swinkels, T.J. Vogelaar, S. Assali, L. Gagliano, R.W. van der Heijden, E.P.A.M Bakkers
PA12.10	<i>Demonstrated amorphous bulk Al-Mn-Si for nano-structured thermoelectric materials</i> M. Adachi , S. Fujii, M. Kiyama, Y. Yamamoto, S. Nishino, M. Omprakash, A. Yamamoto, T. Takeuchi, A. Makino
PA12.11	<i>The role of oxidation in tellurium/PEDOT:PSS hybrid composite thermoelectric materials</i> K.A. Mazzio , J. Niederhausen, S. Raoux

B1. Measuring techniques

PB1.1	<i>Improving thermoelectric properties by nanoparticle Inclusion in Bi₂Te₃ thin film</i> C. He , M. Uenuma, A. Page, H. Chi, Y. Fujimoto, C. Uher, I. Yamashita, Y. Uraoka
PB1.2	<i>Development of impedance spectroscopy for the characterization of thermoelectric materials</i> B. Beltrán-Pitarch , C. Todd-Jones, G. Min, J. García-Cañadas
PB1.3	<i>Thermal conductivity measurements by scanning thermal microscopy of TiO₂ nanotubes</i> L. Vera-Londoño , R. Sanz, M. Martín-González
PB1.4	<i>Thermoelectric properties determination of multilayered semiconductor materials at harmonic single-frequency excitation of temperature field</i> V.V. Ryzhkov , O.B. Fedoseev, R.A. Poshekhnov, A.S. Osipkov, L.A. Tishenko, S.V. Yanovitch
PB1.5	<i>Recent developments in analysis of thin films and thermoelectrics</i> S. Seibt , C. Linseis, H. Renner

B3. Theory and Modelling

PB3.1	<i>First-principles calculation of the thermoelectric figure of merit of polymeric systems</i> L. Cigarini , A. Ruinia, A. Catellani, Calzolari
PB3.2	<i>Thermoelectric efficiency and fluctuations in nanosystems</i> A. Crépieux , F. Michélini
PB3.3	<i>Theoretical studies of electronic structure and transport properties of locally ordered ternary chalcogenides</i> W. Szczyпка , A. Koleżyński
PB3.4	<i>Ab-initio study of transport properties of p-doped PbTe</i> P. Korotaev , A. Mukhanov, A. Yanilkin



PB3.5	<i>In-plane and cross-plane lattice thermal conductivity of single-layer to bulk MoS₂ by using molecular dynamics study</i> M. Park , Y.-S. Kim
PB3.6	<i>Modelling of thermoelectric properties in multi-phase materials</i> E. Hatzikraniotis, E.C. Stefanaki , Th. Kyratsi, K.M. Paraskevopoulos
PB3.7	<i>First principles study of heavily doped full Heusler Fe₂ YZ for high thermoelectric power factor</i> S. Lemal, D.I. Bilc, F. Ricci , P. Ghosez
PB3.8	<i>Spin-configurations in thermoelectric MnCoGe materials</i> K.R. Hahn , A. Portavoce, S. Bertaina, A. Charai

C1. Modules and thermoelectric generators

PC1.1	<i>Ag-Ni multi-layer metallization characteristics on polycrystalline SnSe</i> S.H. Park , Y. Jin, J.H. Lee, Y. Kim, .I. Chung
PC1.2	<i>Development of Mn/Mn and Mn/Mg High Temperature TE Devices</i> T. Kajitani , K. Takahashi, K. Oku, M. Saito, H. Suzuki
PC1.3	<i>Design and characterization of thermoelectric generators for wearable electronics via optimizing structural parameters</i> Y.G. Lee, B.-K. Ju, C. Park, D.-B. Hyun , J.-S. Kim, B. Kwon
PC1.4	<i>Flexible thermoelectric generator fabricated using bulk materials</i> A. Feldhoff , A. Brittner, L. Helmich, M. Bittner, B. Geppert
PC1.5	<i>Portable thermoelectric power generation base on catalytic combustor for low power electronic equipment</i> H. Abedi , L. Merotto, C. Fanciulli, R. Dondè, E. Bassani, S. De Iuliiis, F. Passarett
PC1.6	<i>Performance of planar μTEG as a function of polySi properties and device membrane-based topology</i> Z. Bougrioua , P. Lejeune, D. Leclercq, K. Ziouche



PC1.7	<i>Experimental investigation of the behaviour of a high performance MPPT algorithm for TEG systems operated under constant heat conditions</i> M. Compadre , A. Montecucco, A. Strain, A.R. Knox
PC1.8	<i>Determination of silicide-based thermoelectric modules efficiency</i> S. Boldrini, A. Ferrario , F. Montagner, A. Miozzo, P. Bison, M. Fabrizio
PC1.9	<i>Joining of thermoelectric material with a metallic electrode using Spark Plasma Sintering (SPS) technique</i> K. Kaszyca , M. Schmidt, M. Chmielewski, K. Pietrzak, R. Zybała
PC1.10	<i>A silicon nanowire thermoelectric device fabricated by top-down process</i> S. Hashimoto , S. Asada, T. Xu, S. Oba, T. Matsukawa, T. Watanabe
PC1.11	<i>Designing of a short leg thermoelectric generator on silicon</i> T. Xu , S. Hashimoto, S. Asada, T. Watanabe
PC1.12	<i>Reliability evaluation of mid-temperature thermoelectric joints - A comparative study of different techniques</i> K. Placha , R. Tuley, K. Simpson
PC1.13	<i>Implementation of a three-dimensional model of thermoelectric generators in OpenFOAM to improve the efficiency of a heat recovery system using an impinging jet heat sink</i> B. Pfeiffelmann, A. C. Benim, F. Joos, D. Ebling
PC1.14	<i>Joining of ceramic based TEG-modules</i> A. Rost , J. Schilm, K. Wätzig, B. Feng, H.P. Martin, A. Michaelis
PC1.15	<i>Lab-scale pilot line for thermoelectric modules based on half-Heusler compounds</i> J.D. König , M. Kluge, K. Bartholomé, E. Geczi, U. Vetter, M. Vergez, U. Nussel, K. R. Tarantik
PC1.16	<i>Flexible thermoelectric generators: from modelling, a roadmap towards applications</i> D. Beretta , A. Perego, G. Lanzani, M. Caironi



PC1.17	<i>Thermoelectric heat pump for space applications</i> L.I. Anatyshuk, A.V.Prybyla, V.V. Lysko , V.G.Rifert
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C2. Applications (general, automotive, industrial)

PC2.1	<i>Thermoelectric applications for home use: thermostat and green barbecue 2.0</i> M. Nesarajah , G. Frey
PC2.2	<i>Thermoelectric cooling of electronic systems</i> S.M. Sohel Murshed , C.A. Nieto de Castro
PC2.3	<i>Theoretical Investigation of a novel thermoelectric laundry dryer concept</i> R. Somdalen , J. Koehler
PC2.4	<i>Effective use of thermal energy at both hot and cold side of thermoelectric module for developing efficient water distillation system</i> H. Al-Madhhachi , G. Min
PC2.5	<i>Fabrication and characterization of single pair thermoelectric generator of Bi_2Te_3 using silver sintering technology</i> W. Wu , A. Waag, E. Peiner
PC2.6	<i>Thermoelectric material library via laser melting</i> Y. Kinemuchi , M. Mikami, I. Terasaki, W. Shin
PC2.7	<i>Development of a thermoelectric heat booster for thermal energy storage in a concentrated PV CHP system</i> J. Siviter
PC2.8	<i>Design of flexible thermoelectric generator as human body sensor</i> A. Rezanía , L.A. Rosendahl
PC2.9	<i>Flexible thermoelectric nanogenerators: from numerical simulations to device fabrication</i> P. Resende, S. Ferreira-Teixeira, A.M. Pereira



PC2.10	<i>Design of a hybrid household thermoelectric refrigerator and its efficiency optimization</i> D. Astrain , A. Rodríguez, Á. Martínez, P. Aranguren, M. Araiz
PC2.11	<i>Tests of a combined heat and power thermoelectric generator for autonomous performing cooking stoves</i> D.Champier , Y. Zeraouli
PC2.12	<i>Advantages of water-cooled Peltier current leads for HTS devices</i> Y. Ivanov , K. Yamauchi, V. Vyatkin, H. Watanabe, N. Inoue, N. Chikumoto, S. Yamaguchi
PC2.13	<i>Reliability prediction of thermoelectric modules for power generation applications</i> S. Han , H.S. Park, H.K. Cho
PC2.14	<i>Highly integrated thermoelectric generators for application in hybrid cars considering the WLTC</i> A. Rossello , M. Kober, L. Heber, F. Rinderknecht
PC2.15	<i>Low energy passenger comfort systems based on the Joule and Peltier effects (JOSPEL project)</i> C. Bandrés , M. de Dios, R. Ledo, S. Melo
PC2.16	<i>Thermoelectric devices for the diagnostics of diseases, oncologic included</i> L.I. Anatyhuk , R.R. Kobylanskyi
PC2.17	<i>Computer simulation and real possibilities of using thermoelectric generators for cars</i> L.I. Anatyhuk, R.V. Kuz