

EEST	WEST	CEST	Day 1 (July 20)			
10:15	08:15	09:15	Opening remarks (room A)			
		09:30	Marisol Martin-Gonzalez (Keynote Talk, Room A): Nanostructuration to boosts thermoelectric efficiency			EU-K.1
			Room A		Room B	
			Materials (Chair: D. Narducci)		Modeling (Chair: M. Fabrizio)	
11:15	09:15	10:15	Moll, Adrien: New promising ternary intermetallic compounds selected by screening calculations	EU-O.1.1	Casi, Álvaro: Thermoelectric Subcooling Device for Carbon Dioxide Transcritical Refrigeration Cycle: Modeling and Validation Thorough Experimental Data	EU-O.2.1
		10:30	Yu, Yuan: Doping by design: Enhanced thermoelectric performance of GeSe-based alloys through metavalent bonding	EU-O.1.2	Baigorri, Javier: Computational model of a multistage thermoelectric heat pump for thermal energy storage applications	EU-O.2.2
		10:45	Tippireddy, Sahil:Improvement of Thermoelectric Performance of CuFeS ₂ Chalcopyrite via Sn Substitution	EU-O.1.3	Zhu, Yuxiao: Accurate thermoelectric generator performance evaluation by deep learning using artificial neural network	EU-O.2.3
		11:00	break (15 mins)			
			Nanostructures (Chair: L. Gomell)		Device and Modules I (Chair: A. Novitskii)	
12:15	10:15	11:15	Rocha, Mariana: Development of Bi ₂ Te ₃ nanoparticles for flexible thermoelectric generators	EU-O.3.1	EL oualid Soufiane: New design of planar μ -TEG based on bismuth telluride for heat harvesting	EU-O.4.1
		11:30	Giulio Federico: Silicon Nanowires as antennas for thermal conductivity reduction in silicon thin films	EU-O.3.2	Sandri, Umberto: Thermoelectric waste heat recovery in hybrid electric aircraft	EU-O.4.2
		11:45	Künzel, Christian: Oxide crystals as phonon scattering centres in printed chalcogenide thermoelectrics.	EU-O.3.3	Alegria, Patricia: Development, installation and field operation of a novel geothermal thermoelectric generator	EU-O.4.3
		12:00	Estrada Denise: Harvesting performance of a SiGe nanowire based micro thermoelectric generator with a high integration density design	EU-O.3.4	Peixoto, João: Large Element Thermoelectric Generator Concept applied to Large-scale Industrial Waste Heat Recovery	EU-O.4.4
		12:15	Ruiz Clavijo, Alejandra: Self-standing three dimensional BiTe nanowire networks	EU-O.3.5	Carvalho, Rui: Experimental Validation of a Temperature-controlled Thermoelectric Generator Concept Developed for Recovering the Exhaust Heat of a Vehicle	EU-O.4.5
		12:30	van de Putte, Marijn: Vertically Aligned Nanocomposites as Promising Architectures for Thermoelectrics	EU-O.3.6	Eleni-Chrysanthi, Stefanaki : Thermoelectric performance of cost-effective, Hafnium free, half- Heusler modules	EU-O.4.6
		12:45	Tran, Van Truong, Atomistic designs of graphene-based nanostructures for high thermoelectric performance	EU-O.3.7	Heber, Lars: Thermoelectric Generators with High Potential for Waste Heat Recovery in Heavy-Duty Vehicle Applications: Validation by a Functional Prototype with up to 2.7 kW	EU-O.4.7
		13:00	lunch break (60 mins)			
			Antimonides and Intermetallics (Chair: A. Pereira Gonçalves)		Measurements (Chair: L. Gomell)	
15:00	13:00	14:00	Luo, Ting : Nb-mediated grain growth and grain-boundary engineering in Mg ₃ Sb ₂ -based thermoelectric materials	EU-O.5.1	Sojo Gordillo, Jose Manuel: Using SThM for the evaluation of the thermal conductivity of single epitaxially suspended NW	EU-O.6.1
		14:15	El Hamouli, Oussama: On the phase stability of KGaSb ₄	EU-O.5.2	Camut, Julia: Overcoming asymmetric contact resistances in Al-contacted Mg ₂ X thermoelectric legs	EU-O.6.2
		14:30	Ivanova,Alexandra: Influence of p-block elements overfilling on thermoelectric properties of CoSb ₃ skutterudites	EU-O.5.3	Beltrán-Pitarch, Braulio: Simple determination of internal thermal contact resistances in thermoelectric devices by impedance spectroscopy	EU-O.6.3
		14:45	Tkhorzhevskiy, Ivan: Production of THz sensor based on thermoelectric BiSb frequency selective surface.	EU-O.5.4	Coelho, Rodrigo: Carbon and Gold as effective diffusion barriers for Mn-doped tetrahedrites	EU-O.6.4
		15:00	Singh, Sukhwinder: Preparation and thermoelectric properties of Fe ₁₀ Cr ₁ Ti ₃ Al ₆	EU-O.5.5	Ferrer, Jhonatan: A new way to measure TEGs: Focus on heat flow determination under transient temperature boundary conditions.	EU-O.6.5

15:15	Vicente Manzano, Cristina: Thermal Conductivity Reduction by Nanostructuring in Electrodeposited CuNi Alloys	EU-O.5.6	Kopatz, Severin: Development of a digital twin for the combined thermoelectric measurement apparatus CTEM	EU-O.6.6
break (30 mins)				
Chalcogenides I (Chair: A. Pereira Gonçalves)			Thin Films I (Chair: A. Famengo)	
16:45 14:45 15:45	Abdellaoui, Lamy: Parallel Dislocation Networks and Cottrell Atmospheres Reduce Thermal Conductivity of PbTe Thermoelectrics	EU-O.7.1	He, Shiyang: Interface Modification of Bismuth by Atomic Layer Deposition Enhanced Thermoelectrical Performance	EU-O.8.1
16:00	Knura, Rafal: Origins of low lattice thermal conductivity of $Pb_{1-x}Sn_xTe$ alloys for thermoelectric applications	EU-O.7.2	Ferreiro-Vila, Elías: Nanocrystalline p-type silicon thin films by metal-induced crystallization (MIC) for thermoelectric applications	EU-O.8.2
16:15	Ransell DSouza: Temperature induced band convergence and thermoelectric transport properties of p-type PbTe	EU-O.7.3	Weidong, Tang: High thermoelectric performance based on stable black phase B- γ -CsSn ₃ thin films	EU-O.8.3
16:30	Zhang, Siyuan: Dynamic Doping of n-type PbTe Thermoelectrics and Their Microstructural Evolution during In-Situ Heating	EU-O.7.4	Binbin Xin: Effect of initial phase distribution of Ca(OH) ₂ and Co ₃ O ₄ on formation of nanoporous Ca ₃ Co ₄ O ₉ thin films with enhanced thermoelectric property	EU-O.8.4
16:45	Kumar, Ashutosh: Engineering Electronic Structure and Lattice Dynamics to Achieve Enhanced Thermoelectric Performance of Mn-Sb co-doped GeTe	EU-O.7.5	Solis de la Fuente, Mauricio: More than 4 times power factor improvement in a nanostructured Sb-doped SnO ₂ film produced by the presence of a solid electrolyte.	EU-O.8.5
17:00	Sousa, Viviana: Colloidal Synthesis of PbTe and SnSe for Thermoelectric Application	EU-O.7.6	Castro-Ruiz, Sergio: Significant power factor improvement in a hybrid solid-liquid thermoelectric device formed by Sb:SnO ₂ in contact with a chromium complex solution	EU-O.8.6
17:15	end of day			

EEST	WEST	CEST	Day 2 (July 21)			
			Room A		Room B	
			Chalcogenides II (Chair: L. Abdellaoui)		Thin Films II (Chair: M. Fabrizio)	
10:30	08:30	09:30	Mukherjee, Shriparna: Understanding the ultra-low thermal conductivity of tetrahedrites	EU-O.9.1	Alijan Farzad Lahiji, Faezeh : The effect of oxygen flow ratio on optical, electrical and thermoelectric properties of NiO films grown by reactive magnetron sputtering	EU-O.10.1
		09:45	Santos, Beatriz: Finding enhanced thermoelectric properties in the combination of natural and synthetic tetrahedrites	EU-O.9.2	Moll, Adrien: Modification of thermoelectric properties of CrSi ₂ thin films induced by nanostructuring	EU-O.10.2
		10:00	Moço, Duarte: The effect of co-doping with Se and Ni or Cr in the thermoelectric properties of tetrahedrite	EU-O.9.3	Sethi, Vikesh : Low pressure chemical vapour deposition of thermoelectric GeTe thin films via a novel single source precursor	EU-O.10.3
		10:15	Ventrapati, Pavan Kumar: Ordered sphalerite derivative Cu ₅ Sn ₂ S ₇ : a degenerate semiconductor with high carrier mobility in the Cu-Sn-S diagram	EU-O.9.4	Boy, Johannes: Influence of reduced dimensionality on the transport in β -Ga ₂ O ₃ thin films	EU-O.10.4
		10:30	Mukherjee, Binayak: Topological Anderson insulator in cation-disordered thermoelectric Cu ₂ ZnSnS ₄	EU-O.9.5	Rubio-Govea, Rodrigo: Synthesis, characterization, and post-treatment of Te/PEDOT:PSS and Ag ₂ Te/PEDOT:PSS hybrid thermoelectric thin films.	EU-O.10.5
		10:45	Isotta, Eleonora: Disorder-driven polymorphism in Cu ₂ ZnSnX ₄ (X = S, Se): structural insights and thermoelectric transport properties	EU-O.9.6	Schwinge, Caroline: LPCVD in-situ doped CMOS-compatible silicon-germanium thin films for thermoelectric cooling and energy harvesting applications on 300-mm-wafer level	EU-O.10.6
10:45 break (30 mins)						
			Theory I (Chair: D. Narducci)		Devices and Modules II (Chair: M. Fabrizio)	
12:15	10:15	11:15	Goury, Donald: Ab initio study of intrinsic point defects in thermoelectric oxychalcogenide BiCuSeO	EU-O.11.1	André Pereira: Substantial Improvement on Printed Thermoelectric Generators by Curing Temperature	EU-O.12.1
		11:30	Rahim, Warda: Ca ₄ Sb ₂ O and Ca ₄ Bi ₂ O: Two Promising Mixed-Anion Thermoelectrics	EU-O.11.2	Maia, Margarida: Wireless Energy Transfer through Thermoelectric Devices using Screen-Printing Fabrication	EU-O.12.2
		11:45	MA, Weiliang: Electronic and thermoelectric properties of Pb ₂ Bi ₂ Te ₅ by DFT calculations	EU-O.11.3	Subhash, Swathi Krishna: PCB technology-based fabrication of Micro Thermoelectric Generators	EU-O.12.3
		12:00	Lucid, Aoife K.: The impact of interfaces on thermal transport in Bi ₂ Te ₃	EU-O.11.4	Mallick, Mofasser: High performance 2D printed chalcogenides for high-power density 3D thermoelectric generators	EU-O.12.4
		12:15	Zhen Li: Deformation potential extraction and transport calculations from first principles: An accurate and computationally effective way	EU-O.11.5	Burton, Matthew: Pseudo 3D-Printed n-type Tin Selenide	EU-O.12.5

12:30	Ketan Lohani: Effect of polymorphism on the thermoelectric properties of Cu ₂ SnS ₃ (CTS): An experimental and first principles study	EU-O.11.6	Serrano Claumarchirant, Jose Francisco: Electrochemical synthesis of thermoelectric fabrics	EU-O.12.6
13:45 11:45 12:45	Uzhansky Aleksandra: A computational study of interfacial properties of Ag-alloyed PbTe for thermoelectric applications	EU-O.11.7	Tukmakova Anastasiia: Simulation of thermoelectric powders compaction within SPS	EU-O.12.7
14:00 12:00 13:00	lunch break (90 mins)			
15:30 13:30 14:30	Poster Session (on Twitter)			
19:00 17:00 18:00	end of day			

Day 3 (July 22)				
Room A		Room B		
Oxides and Silicides (Chair: A. Novitskii)		Theory II (Chair: Z. Li)		
10:30 08:30 09:30	Stargardt, Patrick: Analysis of reaction layers and cooling simulations of co-fired thermoelectric multilayers	EU-O.13.1	Ganose, Alex: Scattering divination: understanding the temperature dependence of carrier mobility	EU-O.14.1
09:45	Bresch, Sophie: Development of textured multilayer thermoelectric generators based on calcium cobaltite	EU-O.13.2	Misra, Shantanu : Distinguishing resonant from non-resonant impurities in thermoelectric semiconductors	EU-O.14.2
10:00	Spooner, Kieran: BaBi ₂ O ₆ : a Promising Sustainable n-Type Thermoelectric Oxide	EU-O.13.3	Özbal Sargin, Gözde: Ballistic thermoelectric transport properties of two-dimensional group III-VI monolayers	EU-O.14.3
10:15	Woolman, Gavin: Power factor improvements in Mg ₂ Si and Mg ₂ Sn under anisotropic stress	EU-O.13.4	Naithani, Harshita: Systematic method for the application of a two-band model: the case of Mg ₂ Sn	EU-O.14.4
10:30	Sankhla, Aryan: Understanding the impact of Mg loss on the thermoelectric performance of Mg ₂ Si _{0.4} Sn _{0.6} from in situ characterization and advanced transport modelling	EU-O.13.5	Hahn, Konstanze: Effect of mass-disorder on the thermal conductivity of doped SiGe	EU-O.14.5
10:45	Abbassi, Linda: Impact of nanostructuring and doping on thermoelectric properties of β-FeSi ₂	EU-O.13.6	Priyadarshi, Pankaj: Figure of Merit in Band Pass Thermoelectric Device	EU-O.14.6
break (30 mins)				
Chalcogenides III (Chair: L. Abdellaoui)		Heusler Compounds (Chair: R. Bueno)		
12:15 10:15 11:15	Bourhim, Abdelhamid: Exsolution mechanism, structural disorder and transport properties in Cu ₂₆ V ₂ Sn ₆ S ₃₂	EU-O.15.1	Diack Rasselio, Abou: Influence of nanostructuring in Fe ₂ VAl alloys	EU-O.16.1
11:30	Maji, Krishnendu: Enhancement of the thermoelectric performances in Bi-doped and Cl-doped synthetic mineral CuPbBi ₅ S ₉	EU-O.15.2	Gomell, Leonie: On the Microstructure-Property Relationship of Thermoelectric Full-Heusler Fe ₂ VAl Manipulated by Laser Surface Remelting	EU-O.16.2
11:45	Cherniushok, Oleksandr: Phase Equilibria and Thermoelectric Properties in the Pb-Ga-Te System in the Vicinity of the PbGa ₆ Te ₁₀ Phase	EU-O.15.3	Talla Noutack, Martin: Determination of the thermal conductivity of pristine and substituted Fe ₂ VAl	EU-O.16.3
12:00	Yahyaoglu, Mujde: Phase-Transition-Enhanced Thermoelectric Transport in Rickardite Mineral Cu _{3-x} Te ₂	EU-O.15.4	Artem, Antonov: Effect of doping and compensation in Co(Fe,Ni)Si alloys on their thermoelectric transport	EU-O.16.4
12:15	Madar, Naor: High thermoelectric performance of Ge _{0.962} Bi _{0.038} Te _{1.057}	EU-O.15.5	Mesaritis, George: Fabrication of (Ti,Zr)NiSn Half Heusler via Mechanical Alloying.	EU-O.16.5
12:30	Gayner, Chhatrasal: Effects of grain misorientation and Nd-doping on thermoelectric properties of nanostructured Bi ₂ Te ₃	EU-O.15.6	Ioannou, Ioanna: Investigation of the Thermoelectric Properties of p-type Nanostructured half-Heusler (Hf,Zr,Ti)Co(Sb,Sn) Solid Solutions Fabricated by Mechanical Alloying	EU-O.16.6
12:45	Hamawandi Bejan: Microstructure and Transport Property Evaluation of Nanostructured Bi ₂ Te ₃ Synthesized through different solution chemical routes	EU-O.15.7		
14:00 12:00 13:00	Closing remarks (room A)			