

21ST EUROPEAN CONFERENCE ON THERMOELECTRICS

FROM MONDAY 8TH TO FRIDAY 12TH SEPTEMBER 2025.

SCIENTIFIC PROGRAM





Monday, 8 Sept.	Tuesday, 9 Sept.	Wednesday, 10 Sept.	Thursday, 11 Sept.	Friday, 12 Sept.
	Welcome participant 8:00-8:30			
	Introduction 8:30-9:00		Welcome participant 8:30-9:00	
	Plenary 9:00-9 45 Paz Vaqueiro	Plenary 9:00-9 45 Atsushi Togo	Plenary 9:00-945 Olga Caballero	Plenary 9:00-9 45 Thierry Caillat
		Sessions		
		Coffee break 10:15-10:45		Regular talks
		Sessions		9:45-11:00
		Coffee Break 11:00-11:30		
	10:45-12:00 Lunches 12:00-13:30			Conclusion & Awards 11:30-12:00
	Sessions Regular & Invited talks 13:30-15:00		Sessions Regular & Invited talks 13:30-15:15	Farewell - Departure
	Coffee Break		Coffee Break 15:15-15:45	
	15:00-15:30	Poster Session 2	Sessions	
	Sessions - Regular talks 15:30-16:30	Beers & Bretzels 15:00-17:00	Regular talks 15:45-17:00	
Registration at City	Poster session 1 Chesse & Wine party		Gala dinner	
Hall & Welcome party 17:00 - 22:00	16:30-18:30		18:00-23:00	













MONDAY, SEPTEMBER 8

17:00 - 19:00

Registration at City Hall (Place Stanislas)

19:00 - 22:00

Welcome party at City Hall Light show at Place Stanislas at 22:00

TUESDAY, SEPTEMBER 9

Tuesday, 9 September 9:00-10:15 Auditorium 300		
9:00	Plenary	Lone pairs as a design strategy for thermoelectric materials Paz Vaqueiro
		University of Reading, United Kingdom
9:45	Invited talk	Emerging thermoelectric properties from semimetal to semiconductor Susan Kauzlarich UC Davis, USA
10:15-10:45		Coffee break

Tuesday, 9 September 10:45-12:00 Auditorium 300		
10:45	Regular Talk	Exploring High-Temperature Thermoelectric Properties of (Ca, Sr) ₁₄ (Al, Ga, In)(Sb, Bi) ₁₁ Zintl Phases Umut Aydemir Koç University Boron and Advanced Materials Application and Research Center (KUBAM) & Department of Chemistry, Koç University, Istanbul, Türkiye
11:00	Regular Talk	Grain Boundary Electrical Resistance in the High Temperature Thermoelectrics Yb14MgSb11 and La3Te4 Duncan Zavanelli Northwestern University, Evanston, USA
11:15	Regular Talk	Cation Mg-dominated Coherent Phonon Transport Leads to Anomalous Thermal Conductivity in Mg ₃ Bi ₂ Minhui Yuan School of Materials, Sun Yat-sen University, Shenzhen, China
11:30	Regular Talk	A computational study on type-I Sn clathrates with inorganic and organic guests Kelaidis Nikolaos Institute of Theoretical and Physical Chemistry, National Hellenic Research Foundation, Athens, Greece
11:45	Regular Talk	Improved thermoelectric performance in very finely grained Co _{0.91} Ni _{0.09} Sb ₃ skutterudites Johari Kishor Kumar Univ Paris Est Creteil, CNRS, ICMPE, UMR 7182, Thiais, France

Tuesday, 9	September	10:45-12:00
Room 201		

10:45	Regular Talk	Oxide Thermoelectric Materials – Challenges and Opportunities Kriti Tyagi CSIR-National Physical Laboratory, Dr. K.S. Krishnan Marg, New Delhi, India Academy of Scientific & Innovative Research (AcSIR), Ghaziabad, Uttar
		Pradesh, India
		Breaking the thermoelectric trade-off in Ru doped BiCuSeO via
		Resonant level formation in band structure
11:00	Regular	Ram Amuthan
11.00	Talk	Center of Excellence in Materials for Advanced Technologies (CeMAT),
		Faculty of Engineering and Technology
		Department of Physics and Nanotechnology
		SRM Institute of Science and Technology, Kattankulathur, India
		Decoupling the Electrical Conductivity and Thermopower by
		Chemically Manipulating Ni2+/NiO and Ti4+/Ti3+ Redox Pairs in Ni-
11:15	Regular	doped Sr(Ti, Nb) O3
11.10	Talk	Michitaka Ohtaki
		Interdisciplinary Graduate School of Engineering Sciences
		Education Center for Green Technologies
		Kyushu University, Kasuga, Fukuoka, Japan
11.70		Electrochemical and thermoelectric properties of
11:30	Regular	multicomponent oxides
	Talk	Tadeusz Miruszewski
		Gdańsk University of Technology, Institute of Nanotechnology and
		Materials Engineering, Advanced Materials Centre, Gdańsk, Poland
	Regular	Cost-Effective Performance Enhancement: How High-Entropy
11:45	Talk	Engineering Optimizes In2O3-Based Thermoelectric Oxides
		Jia Chuang
		ICMMO (UMR CNRS 8182), University Paris-Saclay, Gif sur Yvette

Tuesday,	9 September	10:45-12:00
Room 101		

10:45	Regular Talk	Theoretical study of electronic structure and transport properties of halfmetallic ferromagnetic Cu₂FeSnS _x Se _{4-x} with strong electron correlations Dariusz Wieczorek Faculty of Physics and Applied Computer Science, AGH University of Krakow, Krakow, Poland
11:00	Regular Talk	A high-throughput framework for ab initio deformation potential extraction for thermoelectric materials Zhao Yao School of Engineering, University of Warwick, Coventry, UK
11:15	Regular Talk	Electronic properties of thermoelectric pseudo-hollandite and hollandite-like phases Bruno Fontaine ISC Rennes - UMR 6226, University of Rennes, CNRS, ENSCR, Rennes, France Saint-Cyr Coëtquidan Military Academy, CReC, Guer, France
11:30	Regular Talk	When are elongated bands most effective for the power-factor? Bhawna Sahni School of Engineering, University of Warwick, UK
11:45	Regular Talk	The use of descriptors within featurization for improved machine learning prediction of half-Heusler thermoelectric materials Nirmal Kumar School of Engineering, University of Warwick, Coventry, UK
12:00-13:30		Lunch

	Tuesday, 9 September 13:30-15:00 Auditorium 300		
13:30	Invited Talk	Recent developments in n-type XNiSn half-Heusler thermoelectrics using Cu dopants Jan-Willem G. Bos University of St Andrews, Scottland	
14:00	Regular Talk	Thermoelectric properties of single-crystalline TiCoSb-based half-Heuslers Jun Mao School of Materials Science and Engineering, and Institute of Materials Genome & Big Data, Harbin Institute of Technology (Shenzhen), Shenzhen, P.R. China	
14:15	Regular Talk	Improved Thermal Stability of NbCoSn Half-Heusler compounds via Sb Doping-induced Complementary Point Defect Evolution Kyuseon Jang Max Planck Institute for Sustainable Materials, Germany	
14:30	Regular Talk	Half-Heusler thermoelectric compounds with intrinsically low thermal conductivity Chenguang Fu Zhejiang University	
14:45	Regular Talk	Heavier element substitution in <i>p</i> -type Fe ₂ VAI Heusler alloy Moorthy Manojkumar Univ. Paris Est. Creteil, CNRS, ICMPE, UMR 7182, THIAIS, France	

	Tuesday, 9 September 13:30-15:00 Room 201		
13:30	Regular Talk	Half-Heusler thermoelectrics based on TiFe _{0.5} Ni _{0.5} Sb and (Nb,Ta,Ti)FeSb compounds synthesized via mechanical alloying Savvas Hadjipanteli Department of Mechanical and Manufacturing Engineering, University of Cyprus, Nicosia, Cyprus	
13:45	Regular Talk	Thermoelectric performances of conducting polymer aerogels: the role of porosity and doping Essadiki Souhail Université de Strasbourg, CNRS, Institut Charles Sadron UPR22, Strasbourg, France	
14:00	Invited Talk	From macromolecular engineering and doping efficiency to structural control and device engineering, the latest advances in polymer thermoelectrics Laure Biniek Institut Charles Sadron (ICS), Strasbourg, France	
14:30	Regular Talk	Graphene-based Organic semiconductor composites for low-temperaturegrade energy harvesting: from cell to module Muhammad Sajid Department of Electronic Engineering, CHOSE—Centre for Hybrid and Organic Solar Energy, University of Rome Tor Vergata, Rome, Italy	
14:45	Regular Talk	Optimization of Copper Iodide nanoparticle based composite thermoelectric material Bitmets Oskars Institute of Solid State Physics, University of Latvia	

	Tuesday, 9 September 13:30-15:00 Room 101		
13:30	Regular Talk	Coupling of a Genetic Algorithm and a Thermoelectric Network Model for Radioisotope Thermoelectric Generator (RTG) Optimisation Kyrimis Stylianos Institute of Materials Research, German Aerospace Centre (DLR)	
13:45	Regular Talk	Thermoelectric Metamaterials for Enhanced Power Generation Modules Zianni Xanthippi Department of Aerospace Science and Technology, School of Science, National and Kapodistrian University of Athens, Greece	
14:00	Regular Talk	Multifactor optimization of permeable thermoelectric structures Radion Cherkez Chernivtsi National University, Chernivtsi, Ukraine Institute of Thermoelectricity, Nayki str.,1	
14:15	Regular Talk	Planar Silicon-Based µTEG Test Platform for Evaluating Thermoelectric Materials and Optimizing Thermal Management Rodriguez-Iglesias Alex Institute of Microelectronics of Barcelona (IMB-CNM-CSIC), Bellaterra, Spain	
14:30	Invited Talk	Thermoelectricity as an energy source for the powering of industrial IoT sensors: use cases and perspectives Dimitri Taïnoff Institut Néel - Start-up Moïz, Grenoble, France	

15:00-15:30 Coffee break

Tuesday, 9 September	15:30-16:30
Auditorium 300	

15:30	Regular Talk	Cation-deficient Half-Heusler Thermoelectric Materials Tiejun Zhu State Key Laboratory of Silicon and Advanced Semiconductor Materials, School of Materials Science and Engineering, Zhejiang University, Hangzhou, P.R. China
15:45	Regular Talk	New efficient thermoelectric half-Heusler compositions from Machine Learning Philippe Jund ICGM, Univ. Montpellier, CNRS, ENSCM, Montpellier France
16:00	Regular Talk	p-type Dopability in Half-Heusler Thermoelectric Semiconductors Hu Lirong State Key Laboratory of Silicon and Advanced Semiconductor Materials, School of Materials Science and Engineering, Zhejiang University, Hangzhou, China
16:15	Regular Talk	Dominance of Coulombic scattering in the power factor of half Heuslers Dutt Rajeev School of Engineering, University of Warwick, Coventry, UK

Tuesday, 9 September	15:30-16:30
Room 201	

Room 20) 	
15:30	Regular Talk	Direct electron cooling at millikelvin temperatures with quantum-well heat pump Grayson Matthew Electrical & Computer Engineering, Program in Applied Physics Northwestern University, USA
15:45	Regular Talk	Transverse thermoelectric effect in WSi2 with/without magnetic field Ohsumi Shoya Fac. of Science and Technology, Tokyo Univ. of Sci.
16:00	Regular Talk	Thermoelectric properties of kagome metals Ni ₃ Sn and Ni _{3-x} Co _x Sn Yoshida Shogo Department of Physics and Astronomy, Tokyo University of Science
16:15	Regular Talk	Frustrated vacancy order in diamagnetic metal Kutinaite Ag ₆ Cu ₁₄ . ₄ As ₇ Ventrapati Pavan Kumar Department of Chemistry, SRM University Amravati-AP, Mangalagiri, AndhraPradesh, India Center for Integrated Materials Research, Department of Chemistry and iNANO, Aarhus University, Aarhus, Denmark

Tuesday,	9 September	15:30-16:30
Room 101		

15:30	Regular Talk	Fabrication of Thermoelectric Devices Based on Colusites Suekuni Koichiro Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Kasuga, Fukuoka, Japan
15:45	Regular Talk	Investigation of Titanium as a Potential Diffusion Barrier in Bismuth Telluride Thermoelectric Generators Terzi llayda Université de Lorraine, CNRS, Institut Jean Lamour, Nancy, France
16:00	Regular Talk	Ultra-low Power Thermoelectric Sensor for Sweat Rate Monitoring Ping Sun School of Materials Science and Engineering, Harbin Institute of Technology, Shenzhen, Guangdong, China
16:15	Regular Talk	Design of Oxide Thermoelectric Uni-leg Modules Shimizu Yoshimi Department of Applied Physics, Graduate School of Engineering, Tohoku University
16:30-18:30		Poster session 1 Cheese & Wine party

WEDNESDAY, SEPTEMBER 10

Wednesday, 10 September 9:00-10:15 Auditorium 300		
9:00	Plenary	Computational strategies for modeling transport: electron, phonon, and machine learning Atsushi Togo
		National Institute for Materials Science (NIMS), Tsukuba, Japan
9:45	Invited talk	Combining the Power of High-Throughput Ab Initio Calculations and Machine Learning towards Materials Informatics Gian-Marco Rignanese Université Catholique de Louvain, Belgique
10:15-10:45		Coffee break

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Wednesday, 10 September 10:45-12:00			
Auditorium 300			
		The devil is in the detail(s): How to get the synthesis of high	
		performance MgAgSb right?	
10:45	Regular	De Boor Johannes	
10.43	Talk	German Aerospace Center (DLR), Institute of Materials Research, Cologne,	
		Germany	
		University of Duisburg-Essen, Faculty of Engineering, Institute of	
-		Technology for Nanostructures (NST) and CENIDE, Duisburg, Germany	
		Crystal structure and thermoelectric properties of Cu ₃₀ Ti ₆ Sb ₂ S ₃₂	
11.00	Regular	and Cu ₇ VSnS ₈ : New phases discovered with the pseudo-binary	
11:00	Talk	approach	
		Lemoine Pierric	
		Université de Lorraine, CNRS, IJL, Nancy, France	
	Regular Talk	Defect controlled thermal and electric properties of single	
11.15		crystalline Bi₂O₂Se	
11:15		Hejtmanek Jiri	
		Institute of Physics of the Czech Academy of Sciences, Cukrovarnická	
		10/112, Prague, Czech Republic	
		High thermoelectric performance in novel Cu-based	
	Danidan	chalcogenide with Cr₃Si-type structure	
11:30	Regular	Cherniushok Oleksandr	
	Talk	Thermoelectric Research Laboratory, Department of Inorganic Chemistry,	
		Faculty of Materials Science and Ceramics, AGH University of Krakow,	
		Krakow, Poland	
11.45	Regular	Crystal structure and transport properties of Cu _{2-x} Ag _x Sn _{1-y} Ga _y Se ₃	
11:45	Talk	Wieder Arthur	
		Université de Lorraine, CNRS, Institut Jean Lamour, Nancy, France	

Wednesday, 10 September | 10:45-12:00 Room 201

10:45	Regular Talk	Thin Film Nanodecoration and Nanostructuring Techniques to Enhance Thermoelectric Efficiency in Silicon Micro- Thermoelectric Generators Abad Munoz Libertad Institute of Microelectronics of Barcelona (IMB-CNM-CSIC), Bellaterra, Spain
		Heavily Doped p-type Silicon Nanopillars Obtained by Metal-
11.00	Regular	Assisted Chemical Etching for Thermoelectric Applications
11:00	Talk	Giulio Federico
		Department of Materials Science, University of Milano-Bicocca, Milano,
		Italy
	Regular Talk	Design and optimization of flexible free-standing PEDOT: PSS-
		based thermoelectric composites
11:15		Lis Adrianna
		Thermoelectric Research Laboratory, Department of Inorganic Chemistry,
		Faculty of Materials Science and Ceramics, AGH University of Krakow,
		Krakow, Poland
11:30	Regular Talk Regular Talk	Energy Filtering in Heavily Boron-Doped SiGe Thin Films
11100		Mazzacua Antonio
		University of Milano Bicocca, Department of Materials Science, Milan, Italy
11:45		Thermoelectric properties of Nb doped ScN multilayer structures
		More-Chevalier Joris
		Institute of Physics of the Czech Academy of Sciences, Praha, Czechia

Wednesday, 10 September | 10:45-12:00 Room 101

10:45	Regular Talk	Driving thermoelectric innovation through research-industry collaboration Neves Filipe National Laboratory for Energy and Geology (LNEG), Materials for Energy Unit, Lisbon, Portugal
11:00	Regular Talk	Needs and Challenges in Re-shaping TEG Supply-Chain in EU Yin Hao TEGnology ApS, Maskinvej 5, Søborg, Denmark
11:15	Regular Talk	Thermoelectric Modules and Applications: An Industrial Perspective Ray Aniruddha RGS Development B.V, 1721 PW Broek op Langedijk, Netherlands
11:30	Regular Talk	How to Transfer Thermoelectric Technology from Academia to Industry? The Case of Thermo Power Systems Lani Frederic Thermo Power SRL, Belgium
11:45	Regular Talk	Durable and sustainable thermoelectric devices made from zinc and magnetsium-antimony alloys Nielsch Kornelius Institute of Materials Research, Technical University of Dresden
12:00-	-13:30	Lunch

Wednesday, 10 September 13:30-15:00 Auditorium 300		
13:30	Invited Talk	Resonant Levels in Thermoelectrics: What They Are and How They Work in Metals and Semiconductors Bartlomiej Wiendlocha AGH University of Krakow, Pologne
14:00	Regular Talk	Enhanced Thermoelectric Performance of PbSnTeSe High- Entropy Alloys via Magnetic Doping and Strain Engineering Boulet Pascal Aix-Marseille University, Faculty of Sciences, 52 av. Escadrille Normandie- Niemen, Marseille, France
14:15	Regular Talk	Scattering exponent approximation for complex electronic structure thermoelectric materials from ab initio calculations Go Yuji School of Engineering, University of Warwick, Coventry, UK
14:30	Regular Talk	Quantifying the impact of band change upon alloying on the power factor Ankit Kumar University of Warwick, UK
14:45	Regular Talk	A novel method for evaluating dimensionless thermoelectric properties of fine-grained n -type Bi_2Te_3 by scattering parameter γ , materials parameter β , and reduced Fermi energy η at room temperature ljitsu Ayumu Department of Mechanical Science, Division of Science and Technology, Graduate School of Sciences and Technology for Innovation, Tokushima University, Tokushima, Japan

Wednesday,	10 September	13:30-15:00
Room 201		

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•	13:30	Regular Talk	Mechanochemical Synthesis and Low-Energy Phonon Scattering in Mixed-Anion Chalcohalides Bi ₁₃ S ₁₈ X ₂ (X = I, Br, CI) Tiadi Minati Laboratoire CRISMAT, UMR 6508, CNRS, ENSICAEN, Caen, France
	13:45	Regular Talk	Exploring Defect-Driven Phonon Dynamics in GeTe: Raman and Thermal Perspectives Kamble Vinayak School of Physics, Indian Institute of Science Education and Research Thiruvananthapuram, India
	14:00	Invited Talk	Inelastic Neutron Scattering, an Experimental Tool for Understanding Phonons and Diffusion Processes in Thermoelectric Materials Michael Marek Koza Institut Laue Langevin (ILL), Grenoble, France
•	14:30	Regular Talk	Unraveling the Lattice Dynamics of Silicides: Strategies for Improved Thermoelectric Efficiency Beaudhuin Mickael ICGM, Univ Montpellier, CNRS, ENSCM, Montpellier, France
	14:45	Regular Talk	s-d Coupling Induced Dynamic Off-centering of Cu Drives High Thermoelectric Performance in TICuS Animesh Bhui Animesh New Chemistry Unit, International Centre for Materials Science and School of Advanced Materials, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Jakkur P.O., Bangalore, India

Wednesday, 10 September 13:30-15:00 Room 101		
13:30	Regular Talk	Tuning ionic thermoelectric behaviour of Lignin derived hydrogels Mario Culebras Rubio Institute of Materials Science (ICMUV), Universitat de València, Paterna, Spain
13:45	Regular Talk	Role of Polymer Electrodes for Liquid and Gelified Thermoelectrochemical Redox Systems for waste-heat recovery applications Momna Haq Department of Electronic Engineering, CHOSE—Centre for Hybrid and Organic Solar Energy, University of Rome Tor Vergata, Rome, Italy
14:00	Regular Talk	Effect of gamma radiation on Mg-based thermoelectric materials Pereira Goncalves Antonio Centro de Ciências e Tecnologias Nucleares (C2 TN), Departamento de Engenharia e Ciências Nucleares (DECN), Instituto Superior Técnico, Universidade de Lisboa, Campus Tecnológico e Nuclear, Bobadela, Portugal
14:15	Regular Talk	Optimal performance of thermoelectric devices with small external irreversibility Rajeshree Chakraborty Rajeshree Indian Institute of Science Education and Research Mohali, Sector 81, S.A.S. Naga, Punjab, India
14:30	Invited Talk	Perspective on thermoelectric applications of heat pump, cooling and geothermal energy David Astrain University of Navarre, Spain
15:00)-17:00	Poster session 2 Beers and Bretzels

THURSDAY, SEPTEMBER 11

Thursday, 11 September 9:00-10:15 Auditorium 300			
9:00	Plenary	Driving Innovation and Empowering Wearables: Advances in Thermoelectric Generators for Automotive and Body Heat Harvesting Olga Caballero Instituto de Micro y Nanotecnología (IMN-CNM) of the Spanish Research Council (CSIC), Madrid, Spain	
9:45	Invited talk	Advancing Thermoelectrics to Market: An Industrial Perspective Richard Tuley European Thermodynamics, United Kingdom	
10:15-10:45 Cd		Coffee break	

Thursday, 11 Septe Auditorium 300	ember 10:45-12:00
	Defect Engineering in (

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10:45	Regular Talk	Defect Engineering in Cu-Based Diamond-Like Chalcogenides for Enhanced Energy Conversion Parashchuk Taras AGH University of Krakow, Faculty of Materials Science and Ceramics, Department of Inorganic Chemistry, Thermoelectric Research Laboratory, Krakow, Poland
11:00	Regular Talk	Mixed main group and alkaline-earth metal containing tellurides with extremely low thermal conductivity values Prakash Jai Department of Chemistry, Indian Institute of Technology Hyderabad, Kandi, Telangana, India
11:15	Regular Talk	Process-controlled defect engegnering and intrinsic low thermal conductivity in layered Cu ₂ ZrS ₃ Prestipino Carmelo Laboratoire CRISMAT, UMR 6508, Caen, France
11:30	Regular Talk	Improved thermoelectric efficiency of Sb2Si2Te6 through yttrium-induced nanocompositing Saglik Kivanc School of Materials Science and Engineering, Nanyang Technological University, Singapore Institute of Materials Research and Engineering (IMRE), Agency for Science, Technology and Research (A*STAR), Singapore
11:45	Regular Talk	Thermoelectric Potential of Te-Free Diamond-Like Cu2-xAgxIn2Se4 Chalcopyrites: Low Thermal Conductivity and High Carrier Mobility Serrano-Sanchez Federico Instituto de Ciencia de Materiales de Madrid, CSIC, Cantoblanco, Madrid, Spain

Thursday, 11 September | 10:45-12:00 Room 201

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10:45	Regular Talk	Semiconducting-to-metallic transition leading to large n-type Seebeck coefficient in a copper thiolate-based coordination polymer Andrade Chloe Univ Lyon 1, CNRS, ILM, UMR5306, Villeurbanne, France Univ Lyon 1, CNRS, IRCELYON, UMR 5256, Villeurbanne, France
11:00	Regular Talk	Seebeck coefficient measurement in bidimensional thickness dependant topologically insulated WSe2 Aubergier Nathan Université Grenoble Alpes, CNRS, Institut Néel, Grenoble, France
11:15	Regular Talk	Towards a better understanding of the complex defect diffusivity in Mg ₂ Si/metal contact interfaces using Kelvin Probe Force Microscopy Beck Sarah Emily University of Duisburg-Essen, Faculty of Engineering, Institute of Electronic Materials and Nanostructures (WET) and CENIDE, Duisburg, Germany
11:30	Regular Talk	Thermal conduction in free-standing monolayer MoS₂ and its nanoscroll Liu Huili School of Physical Science and Technology, ShanghaiTech University, Shanghai, China
11:45	Regular Talk	Influence of electron-phonon coupling and phonon-drag effect at interfaces on the electronic and thermoelectric transport properties of thin films Marrot Max Institute Light and Matter, CNRS and University Lyon 1, Lyon, France

Thursday, 11 September	10:45-12:00
Room 101	

10:45	Regular Talk	Towards industrial production of high-temperature thermoelectric modules Pacheco Vicente Fraunhofer Institute for Manufacturing Technology and Advanced Materials, Dresden Branch. Dresden, Germany
11:00	Regular Talk	Bridging Nanoscale Thermoelectrics: From Lab-Scale Innovations to Prototypes Marisol Martín-Gonzalez Instituto de Micro y Nanotecnologñua, IMN-CSIC c/Isaac Newton 8 Tres Cantos (Madrid) Spain
11:15	Regular Talk	Personalized Thermal Management through Thermoelectric Technology and Textile-based Heat Exchange Systems Latronico Giovanna CNR - ICMATE, Lecco, Italy
11:30	Regular Talk	Concept of Solar Tri-generation Using Cold-Side Time- Modulated Heat Withdrawal Narducci Dario University of Milano Bicocca, Department of Materials Science, Milan, Italy
11:45	Regular Talk	The Impact of Electrical Connections on Maximum Power Point Tracking within Hybrid Photovoltaic-Thermoelectric Devices Huq Mashiul Institut Jean Lamour, Campus Artem, Nancy, France
12:00)-13:30	Lunch

Thursday, 11 September 13:30-15:15 Auditorium 300		
13:30	Invited Talk	Leveraging Additive Manufacturing to Re-envision Thermoelectric Systems Saniya LeBlanc George Washington University, USA
14:00	Regular Talk	Laser Sintering of Thermoelectric Chalcogenides Nanopowders Fanciulli Carlo CNR-ICMATE, Lecco, Italy
14:15	Regular Talk	Silicon Germanium alloys developed by additive manufacturing: influence of thermal treatments Savelli Guillaume Univ. Grenoble Alpes, CEA, Liten, Grenoble, France
14:30	Regular Talk	Additive screen-printed 3D thermoelectric generators for energy harvesting Mallick Mofasser Light Technology Institute, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany
14:45	Regular Talk	Tailoring the microstructure and thermoelectric properties of CuNi and NiCr by laser powder bed fusion Karolin Amstein Leibniz Institute for Solid State and Materials Research (IFW) Dresden, Dresden, Germany
15:00	Regular Talk	Printable and Flexible Thermoelectric Generators from Organic/Inorganic Hybrid Materials Pakdel Amir School of Engineering, Trinity College Dublin, The University of Dublin, Dublin, Ireland

Thursday, 11 September	13:30-15:15
Room 201	

ROOM Z	OI .	
13:30	Regular Talk	Scalable Solution Chemical Synthesis of Nanostructured Thermoelectric Materials Hamawandi Bejan Institute of Solid State Physics, University of Latvia, Riga, Latvia. Department of Applied Physics, KTH Royal Institute of Technology, Stockholm, Sweden
13:45	Regular Talk	Solution-based synthesis of inorganic metal chalcogenide particles: Methods and thermoelectric properties analysis Siddiqui Mohammad Waquar Uddin Institut CARMeN (Ex-LCMT), ENSICAEN, Univeristy of Caen Normandy, France
14:00	Invited Talk	Optimizing Thermoelectric Materials: Balancing Performance, Cost, and Sustainability Maria Ibañez Institute of Science and Technology Austria, Klosterneuburg, Austria
14:30	Regular Talk	Seeking for high-performance Ag2Se using a sustainable solution synthesis Milillo Francesco Institute of Science and Technology Austria (ISTA)
14:45	Regular Talk	Enhancement of Thermoelectric and Flexibility Performance of Bi-Sb-Te Thin Films via MAPbl ₃ Composite Strategy Yang Dong Univ Rennes, CNRS, ISCR (Institute des Sciences Chimiques de Rennes) UMR 6226, Rennes, France Shenzhen Key Laboratory of Advanced Thin Films and Applications, Key Laboratory of Optoelectronic Devices and Systems of Ministry of Education and Guangdong Province, State Key Laboratory of Radio Frequency Heterogeneous Integration, College of Physics and Optoelectronic Engineering, Shenzhen University, Shenzhen, Guangdong, China
15:00	Regular Talk	Induction melting synthesis of Mg-based thermoelectric materials Santos Beatriz C ² TN, DECN, Instituto Superior Técnico, Universidade de Lisboa, Campus Tecnológico e Nuclear, Bobadela LRS, Portugal

Thursday,	11 September	13:30-15:15
Room 101		

KOOIII IO		
13:30	Regular Talk	Development of Reliable Interfacial Barrier for Low-Cost Argyrodite Thermoelectric Module Bohra Anilkumar Thermoelectric Research Laboratory, Department of Inorganic Chemistry, Faculty of Materials Science and Ceramics, AGH University of Krakow, Krakow, Poland
13:45	Regular Talk	Life Cycle Assessment (LCA) as a Design Tool for Sustainable Thermoelectric Materials, Modules and Systems Roy Geoffrey Thermo Power SRL, Belgium Institute of Mechanics, Materials, and Civil Engineering, UCLouvain, Belgium
14:00	Regular Talk	Oxidation of skutterudites and their protective coatings: a comparative study Hodroj Arige Univ Rennes, CNRS, ISCR- UMR 6226, Rennes, France
14:15	Regular Talk	Environmentally benign low-cost metal chalcogenides for thermoelectric power generation Farheen Anjum Farheen Plasmonics and Pervoskite Lab, IIT Kanpur, India
14:30	Invited Talk	Thermoelectric Measurement Methods: From Transport Properties to Generator Characterization Pawel Ziolkowski Deutsches Zentrum für Luft- und Raumfahrt (DLR, German Aerospace Center, Cologne, Germany
15:00	Regular Talk	Oxidation Behavior and Integration into High Power Density Thermoelectric Generators of Commercial Half-Heusler Alloys Soufiane El Oualid Institut Jean Lamour, UMR 7198 CNRS - Université de Lorraine, Campus ARTEM, Nancy, France
15:15-15:30		Coffee break

Thursday, 11 September	15:45-17:00
Auditorium 300	

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15:45	Regular Talk	Glass Like Thermal Conductivity in n-type Pb-Sb-Sn-based Sulfide Mineral: Interstitial Rattling and Soft Phonon Modes Maji Krishnendu Institute of Science and Technology Austria (ISTA), Am Campus 13400 Klosterneuburg Austria	
16:00	Regular Talk	Lone Pair Induced 1D Character and Weak Cation-anion Interactions: Two Ingredients for Low Thermal Conductivity in Mixed-anion Metal Chalcohalides Shen Xingchen MOE Key Laboratory of Materials Physics and Chemistry under Extraordinary Conditions, School of Physical Science and Technology, Northwestern Polytechnical University, Xi'an, China CRISMAT, CNRS, Normandie Univ, ENSICAEN, UNICAEN, Caen, France	
16:15	Regular Talk	ION DITUSION MECHANISM OSING MACHINE LEARNING	
16:30 Regular Interlamellar Porosity via Zn²+, Mg²+, and Ni²+ Multi cat Talk Sanam P.k Jamshina		Decoupling Thermoelectric Parameters in CuCrO2: Role of Interlamellar Porosity via Zn ²⁺ , Mg ²⁺ , and Ni ²⁺ Multi cation-Doping Sanam P.k Jamshina Department of Physics, University of Calicut, Malappuram, Kerala	
16:45	Regular Talk	Electron-phonon interaction-driven phonon transport attenuation above ambient temperature Li Wentian State Key Laboratory of Silicon and Advanced Semiconductor Materials, School of Materials Science and Engineering, Zhejiang University, Hangzhou, China	

Thursday,	11 September	15:45-17:00
Room 201		

Regular		Thermoelectric Properties of (MoO3)x-doped C60 films Nakaya Masato	
	Talk		
		Department of Energy Science and Engineering, Nagoya University	
	Regular Talk	Tailoring Defects in ScN Thin Films via Ion Implantation	
16:00		Poterie Charlotte	
		PPRIME Institute, CNRS, Université de Poitiers-ENSMA, UPR 3346, SP2MI,	
		TSA 41123, Poitiers, France	
	Regular Talk	Electrical transport and Seebeck measurements in highly	
16:15		disordered channels buried in diamond	
		Salami Sana	
		Institute of Light and Matter (ILM), CNRS, University Lyon 1, Lyon, France	
	Regular Talk	Non-Contact Electrical and Thermal Characterizations of	
16:30		Electrodeposited SnSe Films	
		Tahir Axel	
		Université de Lorraine, CNRS, IJL, Metz, France	
	Regular Talk	Enhancing Thermoelectric Efficiency in CrSi ₂ Films through Al Ion	
16:45		Implantation-Induced Energy Filtering	
		Erwan Oliviero	
		ICGM, CNRS, Univ. Montpellier, Montpellier, France	

Thursday, 11 September 15:45-17:00 Room 101				
15:45	Regular Talk	Amorphous-like thermal conductivity and high thermoelectric figure of merit in "π" SnS and SnSe Zhang Min Department of Chemistry, University of Manchester		
16:00	Regular Talk	Thermoelectric properties of pure and Nb doped ScN from first- principles Legut Dominik IT4Innovations, VSB - Technical University of Ostrava, Ostrava, Czech Republic		
16:15	Regular Talk	Structural and stacking fault modelling of low-density Cu _{2+y} Zn ¹ - ySnS _{4-x} Se _x systems for thermoelectric applications Malagutti Marcelo University of Trento - DICAM, via Mesiano 77 - 38123 - Trento-Italy		
16:30	Regular Talk	Tuning of electronic structure and thermoelectric properties via defects engineering in Cu _{8-x} Si(S ₃ Se ₃) _{1-y} l _y argyrodites Tobola Janusz Faculty of Physics and Applied Computer Science, AGH University, Krakow, Poland		
16:45	Regular Talk	Enhancing thermoelectric properties of n-type (Pb-Sn)Te via resonant doping Pryga Kacper AGH University of Krakow, Faculty of Physics and Applied Computer Science, Krakow, Poland		
18:00		Departure to the Gala Dinner at the Abbaye		

FRIDAY, SEPTEMBER 12

Friday, 1 Auditori		ber 9:00-11:00
9:00	Plenary	Radioisotope Thermoelectric Generators for US Space Missions: Past, Present, and Future Thierry Caillat Jet Propulsion Laboratory (JPL), NASA, Pasadena, USA
9:45	Regular Talk	Multinary sulpides for thermoelectrics: Mechanochemical synthesis via industrial milling Balaz Peter Institute of Geotechnics, Slovak Academy of Sciences, Košice, Slovakia
10:00	Regular Talk	Improving Thermoelectric Efficiency of Hybrid Lignin-Copper Iulfide Materials Gomez Clara Maria Institute of Materials Science (ICMUV), Universitat de València, c/ Catedràtic José Beltrán 2, 46980 Paterna, Spain
10:15	Regular Talk	Magneto-thermoelectric properties of selected sulfides Hebert Sylvie Laboratoire de Cristallographie et Sciences des Matériaux CRISMAT, Normandie Université, CNRS, ENSICAEN, UNICAEN, Caen, France
10:30	Regular Talk	Solid solution alloying strategy to enhance thermoelectric efficiency of layered metal chalcogenides; (Bi,Sb) ₂ Te ₃ , Bi ₂ (Se,Te) ₃ and beyond Kim Sang-II Department of Materials Science, University of Seoul, South Korea
10:45	Regular Talk	Thermal conductivity imaging to advance microstructure engineering in thermoelectrics Isotta Eleonora Nanoanalytics and Interfaces, Max-Planck-Institute for Sustainable Materials, Düsseldorf, Germany

Friday, 11 September	9:45-11:00
Room 201	

9:45	Regular Talk	A Support to Deep Space Exploration: Transuranium Thermoelectrics Properties Studies Griveau Jean-Christophe European Commission, Joint Research Centre (JRC), Karlsruhe, Germany			
10:00	Regular Talk	Thermal Wave Dynamics and Thermoelectric Transport in InGaAs/GaAs Superlattices Ankur Chatterjee Institute of Physics, Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus University in Toruń, Torun, Poland Chair of Applied Solid-State Physics, Experimental Physics VI, Ruhr-University Bochum, Bochum, Germany			
10:15	Regular Talk	Efficient and stable MgAgSb-based thermoelectric devices Zuo Wusheng State Key Laboratory of Advanced Fiber Materials, College of Materials Science and Engineering, Donghua University, Shanghai, , China			
10:30	Regular Talk	Primary and Secondary Properties of Amorphous TiNiSn for Flexible Thermoelectric Devices Khayyamifar Sana Department of Materials Science and Applied Mathematics, Malmö University, Malmö, Sweden Biofilms Research Center for Biointerfaces, Malmö University, Malmö, Sweden			
10:45	Regular Talk	Relative Leg-Height Optimized Micro-Thermoelectric Devices Pulumati Nithin Bharadwaj Institute for Metallic Materials, Leibniz Institute of Solid State and Materials Research, Dresden, Germany TU Dresden, Faculty of Mechanical Engineering, Dresden, Germany			

Thursday, 11 September 9:45-11:00					
Room 10	Room 101				
	D I .	Halide perovskites as thermoelectric materials			
9:45	Regular	Fenwick Oliver			
	Talk	School of Engineering and Materials Science, Queen Mary University of			
		London, UK			
	Dagudag	The Potential of High-Entropy Oxides: Insights from Perovskite			
10:00	Regular	Structures			
	Talk	Moll Adrien			
		ICMMO, University Paris-Saclay, UMR CNRS 8182, Orsay, France			
	Dogulor	Grain Boundary Engineering to Enhance Mg2(Si, Sn) Stability			
10:15	Regular	Duparchy Amandine			
	Talk	German Aerospace Center, Institute of Materials Research, Cologne,			
		Germany			
		Silicide thermoelectric modules based on high purity Si and			
10:30	Regular Talk	recycled Si-kerf			
10.50		S. Ioannou Panagiotis			
		Department of Mechanical and Manufacturing Engineering, University of			
		Cyprus, Nicosia, Cyprus			
		A simple formula for calculating the carrier relaxation time			
	Regular Talk	Mili Ilyas			
10:45		Department of Physics, Faculty of Science, University of M'sila, M'sila,			
		Algeria			
		Laboratory of Physics and Chemistry of Materials, University of M'sila,			

	Algeria
11:00-11:30	Coffee break
11:30-12:00	Aryan Sankhlar (ETS thesis award) Poster awards Announcement ECT2026
12:00-13:30	Lunch