

GiTe 2026 Program

Thursday 12 February 2026

9:30 Registration

10:00 Institutional welcome by Organizers Dr B. Lorenzi and introduction by the AIT President Dr. C. Fanciulli

S1 – Development of Materials

Chair: Dr.ssa Fabiola Liscio

10:20 Tanguy Bernard – UniTN
High-Performance CZT(S,Se) Thin Films via Scalable Processing for Fully Sustainable Thin-Film Thermoelectric Generator

10:40 Andrea Reale – CHOSE UniRM2
Simultaneous Enhancement in the Seebeck and Electrical Conductivity of Organic Polymer Composites via Doping Strategy

11:00 COFFEE BREAK

11:30 Alberto Castellero – UniTo
Processing of n-type and p-type intermetallic compounds for a waste heat harvesting thermoelectric module

11:50 Cecilia Piscino - UniGe
Systematic Overview of $REy(FexNi_{1-x})_4Sb_{12-\delta}Sn_\delta$ Skutterudites for Thermoelectric Applications

12:10 Patrizio Graziosi- CNR-ISMN
SiGeSn alloys as flexible materials platform for on-chip thermal management and energy scavenging

12:30 LUNCH

S2 – Material Properties and Characterization

Chair: Dr. Carlo Fanciulli

13:30 Eleonora Isotta- MPI-SusMat
Impact of grain boundaries and grain boundary transitions on thermoelectric transport properties

13:50 Xinxi Huang - UniTo
Effects of synthesis routes and doping on the properties of Zn-Sb thermoelectric systems

14:10 Miriam Vergara- UniMore
Thermal conductivity measurements on supported nanowires

14:30 COFFEE BREAK

15:00 Giovanni Pennelli – UniPi
Thermoelectric generators and coolers from on-chip modules to advanced characterization techniques

15:20 Alessio Bertrami – GemaTEG Italia
Adaptive testbench for thermal simulation of chiplets with Non-Uniform Power Distribution

15:40 General assembly of AIT – Associazione Italiana di Termoelettricità

20:00 SOCIAL DINNER @ DA CESARINO, PIAZZA IV NOVEMBRE N. 4 - PERUGIA

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S3 – Device and Application

Chair: Prof. Alberto Castellero

10:00 Giovanna Latronico – CNR-ICMATE
Personalized Thermal Management via Thermoelectric and Textile Heat Exchange Systems

10:20 Elia Villa – GemaTEG Italia
Dependency of Thermoelectric efficiency on thermal interfaces: an experimental study

10:40 COFFEE BREAK

11:10 Stefano Macellari – GemaTEG Italia
Temperature-Controlled FPGA chip for High-Speed GBT Links

11:30 Daniele M. Trucchi – CNR-ISM
Thermionic-Thermoelectric Generator for Sensible-Heat Thermal Batteries

11:50 Momna Haq – CHOSE-UniRM2
Role of Polymer electrodes for liquid and gelified thermoelectrochemical redox system for waste-heat recovery applications

12:10 Alessandro Bellucci – CNR-ISM
Different Regimes Common Physics Comparing Thermoelectric HotCarrier and Plasmonic Energy Conversion Device

12:30 LUNCH

S4 – Keynote Talk

Chair: Dr. Bruno Lorenzi

14:00 Nicola Senin – UniPG
Keynote Cognitive AI in design and manufacturing: challenges and perspectives for sustainability and innovation

S5 – CFD and Modelling

Chair: Dr. Patrizio Graziosi

14:45 Tamara Gammaidoni– UniPG
CFD and Physics-Informed Neural Networks for Parametric Analysis of Flow and Heat Transfer in Microchannels

15:05 Gianmarco Corbucci- GemaTEG Italia
AI chip localized temperature regulation with DaTEG active cold plate

15:25 Shakar Javid – GemaTEG Italia
A united framework for Data-Driven Thermal Modeling and Control Optimization

15: 45 **Round table & discussion**

16:15 **Best Junior Talk Award**