

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 Samet Ocak- CNR-ISMN
Sn-based organometal halide perovskites for thermoelectric materials

12:10 Cecilia Piscino - UniGe
Systematic Overview of $REy(FexNi_{1-x})_4Sb_{12}-\delta Sn\delta$ Skutterudites for Thermoelectric Applications

12:30 Patrizio Graziosi- CNR-ISMN
SiGeSn alloys for chip-temperature thermoelectrics: insight from modelling

12:50 LUNCH

S2 – Material Properties and Characterization

Chair: Dr. Carlo Fanciulli

14:30 Eleonora Isotta- MPI-SusMat
Impact of grain boundaries and grain boundary transitions on thermoelectric transport properties

14:50 Xinxi Huang - UniTo
Effects of synthesis routes and doping on the properties of Zn-Sb thermoelectric systems

15:10 Miriam Vergara- UniMore
Thermal conductivity measurements on supported nanowires

15:30 COFFEE BREAK

16:00 Giovanni Pennelli – UniPi
Thermoelectric generators and coolers from on-chip modules to advanced characterization techniques

16:20 Alessio Bertrami – GemaTEG Italia
Adaptive testbench for thermal simulation of chiplets with Non-Uniform Power Distribution

16:40 **General assembly of AIT – Associazione Italiana di Termoelettricità**

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

Friday 13 February 2026

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**