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	**COFFE 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(FexNi1–x)4Sb12–δSnδ 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	**COFFE 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**

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 Stefano Macellari – GemaTEG Italia

Temperature-Controlled FPGA chip for High-Speed GBT Links

11:00 **COFFE BREAK**

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

13:30	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

14:20	Tamara Gammaidoni– UniPG *CFD and Physics-Informed Neural Networks for Parametric Analysis of Flow and Heat Transfer in Microchannels*
14:40	**COFFEE BREAK**
15:10	Gianmarco Corbucci- GemaTEG Italia *AI chip localized temperature regulation with DaTEG active cold plate*
15:30	Shakar Javid – GemaTEG Italia *A united framework for Data-Driven Thermal Modeling and Control Optimization*
15: 50	**Round table & discussion**
16:30	**Best Junior Talk Award**