



Segreteria AIPT: info@aipt-it.it

Prof. Umberto Berardi: umberto.berardi@poliba.it

2024

Bari

XXVII AIPT

Associazione Italiana Proprietà Termofisiche



Politecnico di Bari

Talent Garden

Via Orabona n.4, Bari

XXVII Convegno AIPT

Associazione Italiana Proprietà Termofisiche

20 settembre 2024

[PROGRAMMA](#)



09.00 – 09.30 [Apertura dei lavori](#)

09.30 – 10.30 [Assemblea Soci AIPT](#)

Comunicazioni
Approvazione bilanci
Rinnovo cariche sociali
Analisi di consuntivo ECTP2023
Varie ed eventuali

10.30 – 11.00 [Pausa caffè](#)

[PREMIO ERMANNO GRINZATO \(Chair Umberto Berardi\)](#)

11.00 – 11.20

[Feliciano Falcone, Gianluca Coccia](#)

A NEW CORRELATION TO PREDICT THE VISCOSITY OF NANOFUIDS BASED ON WATER, ETHYLENE GLYCOL, AND PROPYLENE GLYCOL

11.20 – 11.40

[Eleonora Baccega, Laura Vallese, Michele Bottarelli](#)

ENHANCEMENT OF THERMAL CONDUCTIVITY OF PARAFFIN PCM WITH METAL FOAMS

11.40 – 12.00

[Davide Menegazzo, Giulia Lombardo, Laura Vallese, Sergio Bobbo](#)

EXPERIMENTAL COMPRESSED LIQUID DENSITY MEASUREMENTS AND CORRELATION OF THE BINARY MIXTURE {N-PENTANE (R601) + TRANS-1-CHLORO-3,3,3-TRIFLUORO-1-PROPENE (R1233ZD(E))}

12.00 – 12.20

[Giulia Lombardo, Davide Menegazzo, Laura Vallese, Michele De Carli, Fabio Poletto, Sergio Bobbo](#)

EXPLORING LOW-GWP ALTERNATIVES FOR HEAT PUMPS: A DROP-IN COMPARATIVE STUDY OF R1234YF/R600A AND R134A

12.20 – 12.40

[Hala Salhab, Mahdi Zanjani, Ines Belmir, Alberto Lagazzo, Sergio Nardini, Francesca Zanoni, Mona Sam, Saulo Rocha Ferreira, Antonio Caggiano](#)

GREEN MORTARS MADE WITH TES ENHANCED RECYCLED WOOD AGGREGATES

12.40 – 14.00 [Intervallo pranzo](#)

[RELAZIONI SCIENTIFICHE – PRIMA PARTE \(Chair Alberto Muscio\)](#)

14.00 – 14.15

[Nima Razmjoo, Alice Scolieri, Stefano Signorini, Manuele Gatti](#)

COMPARISON OF DIFFERENT CALIBRATION METHODS FOR VIBRATING TUBE DENSIMETER

14.15 – 14.30

[Pengyu Cheng, Sebastiano Tomassetti, Francesca Luzi, Pietro Forcellese, Tiziano Bellezze, Giovanni Di Nicola](#)

ANALYSIS OF SOLID-SOLID PHASE CHANGE MATERIALS FOR SOLAR THERMAL APPLICATIONS

14.30 – 14.45

[Paolo Bison, Giovanni Ferrarini, Stefano Rossi](#)

ON MEASURING THERMAL DIFFUSIVITY OF A THIN FOIL: PHOTOTHERMAL VARIATIONS

14.45 – 15.00

[Giampaolo D'Alessandro, Filippo de Monte, Stefano Sfarra](#)

OPTIMUM EXPERIMENTAL SET-UP FOR THERMAL CONDUCTIVITIES MEASUREMENT OF COMPOSITE MATERIALS

15.00 – 15.15

[Elena Campagnoli, Valter Giaretto](#)

ADAPTED LASER-FLASH METHOD FOR ESTIMATING THERMAL DIFFUSION PROPERTIES OF A POROUS MATERIAL SURROUNDED BY COMPACT LAYERS

15.15 – 15.30

[Francesco Anaclerio, Adriana Dammico, Nicola Pastore, Concetta I. Gasi](#)

CAN BIOFILM GROWTH AFFECT THE HEAT TRANSFER BEHAVIOUR IN FRACTURED MEDIA?

15.30 – 15.45 [Pausa caffè Intervallo pranzo](#)

[RELAZIONI SCIENTIFICHE – SECONDA PARTE \(Chair Elena Campagnoli\)](#)

15.45 – 16.00

[Konstantin Samukov, Silvia Lasala](#)

CALCULATION OF THE THERMODYNAMIC PROPERTIES OF BINARY REACTIVE MIXTURE. AN APPLICATION TO $N_2O_4 = 2 NO_2$

16.00 – 16.15

[Gianmarco Sciurti, Alberto Muscio, Umberto Berardi](#)

THE ROLE OF THERMOPHYSICAL PROPERTIES IN THE ENERGY RETROFIT OF BUILDINGS WITH INTERMITTENT USE

16.15 – 16.30

[Laura Vallese, Giulia Lombardo, Davide Menegazzo, Laura Fedele, Sergio Bobbo](#)

COMBINING THERMOCHEMICAL AND PHASE CHANGE MATERIALS FOR THERMAL ENERGY STORAGE: THE ECHO PROJECT

16.30 – 16.45

[Maria Montrone, Umberto Berardi, Maria Annunziata M. Capozzi, Antonio Cardone](#)

PLA/CROCONAINE BLENDED COMPOSITE MATERIALS AS HIGH NIR ABSORBERS FOR PCM LATENT HEAT STORAGE

16.45 – 17.00

[Amanda Aguiar, Antonio Caggiano, Romildo Toledo Filho](#)

IMPACT OF WOOD BIO-AGGREGATE CONTENT ON THE THERMO-PHYSICAL PROPERTIES OF BIO-BASED COMPOSITES

17.00 – 17.15 [Conferimento Premio “Ermanno Grinzato”](#)

17.15 – 17.45 [Conclusione dei lavori](#)