

29th January 2020

Aula Diagonale, Dipartimento di Chimica, Università di Torino, Via Pietro Giuria 7

NIS colloquium

Theoretical and experimental approaches to thermoelectrics for waste heat harvesting

This workshop is organized in the framework of the dissemination activities of the “NextTE” project (CSTO162398), founded by Compagnia di San Paolo and Università degli Studi di Torino.

Programme

- 09:30 – 10:10 **Registration**
- 10:10 – 10:30 *Gabriele Ricchiardi, Alberto Castellero and Lorenzo Maschio, Università di Torino & NIS*
Welcome and introduction
- 10:30 – 11:10 *Dario Narducci, Università Milano Bicocca*
Thermoelectricity: intertwining materials, devices and applications
- 11:10 – 11:50 *Minoru Nohara, Okayama University (Japan)*
Exploration of High-Efficiency Thermoelectric Materials with Peculiarly Shaped Band Structures
- 11:50 – 12:30 *Antti Karttunen, Aalto University (Finland)*
Atomistic modelling of thermoelectric materials
- 12:30 – 14:00 **Lunch**
- 14:00 – 14:30 *Francesco Aversano, Università di Torino*
Experimental investigation of Half Heusler thermoelectric compounds
- 14:30 – 15:00 *Loredana Edith Daga, Università di Torino*
Theoretical investigation of Half Heusler thermoelectric compounds
- 15:00 – 15:20 *Alessia Famengo, CNR-ICMATE, Padova*
Organic and polymer- based thermoelectric materials
- 15:20 – 15:40 *Carlo Fanciulli, CNR-ICMATE, Lecco*
From modules to systems: thermoelectric technological solutions
- 15:40 – 16:00 *Milena Salvo, Politecnico di Torino*
Oxidation protective coatings for thermoelectrics
- 16:00 – 16:20 *Mauro Brignone, MARELLI*
Thermoelectric generator integration in automotive exhaust system
- 16:20 – 16:30 **Discussion and final remarks**

Note: confirmation of participation should be sent by e-mail to alberto.castellero@unito.it before 22nd January