

# Conference on Modern Concepts and New Materials for Thermoelectricity



**11 - 15 March 2019**  
**Trieste, Italy**

Further information:  
<http://indico.ictp.it/event/8646/>  
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Thermoelectricity is now a subject of rising interest for its fundamental significance, its technological development in creating new materials, and its applications both in physics and engineering. The purpose of this conference is to bring together experts in fundamentals of thermoelectricity as well as those of materials science and applications.

## Topics:

- Seebeck effect as a tool for studying topological transformations of the Fermi surface
- Thermoelectric and thermospin phenomena in Dirac and Weyl materials
- Thermoelectric and thermomagnetic phenomena in nanodevices
- Thermoelectric and thermomagnetic phenomena in superconductors
- Anomalous Nernst effect and the Berry phase
- Figure of merit and the ways to increase it
- New materials: nanostructured metals (bismuth chalcogenides, half Heusler alloys, oxide compounds, silicon-germanium alloys)
- Specifics of Seebeck effect in electrolytes
- Thermo-electrochemical reactions
- Thermo-electrodiffusion in soft condensed matter
- Applications of thermoelectricity in engineering

## How to apply:

Online application:  
<http://indico.ictp.it/event/8646/>

Female scientists are encouraged to apply.

## Grants:

A limited number of travel grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

## Directors:

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## Local Organizer:

A. SCARDICCHIO

## Speakers:

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## Deadline:

**2 December 2018**



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