

Symposium A-5. Thermoelectric materials for sustainable development – ACT2017 (AAT)

Kyoto University, Japan Aug. 27 (Sun) - Sep. 1 (Fri), 2017

<http://www.iumrs-icam2017.org>

IMPORTANT DATES

Abstract Submission Due	Feb. 28, 2017
Notification of acceptance	Mar. 20, 2017
Early bird registration due	Jun. 20, 2017
Online registration closes	Aug. 14, 2017

ORGANIZING COMMITTEE

Representative: P. Mele (Muroran IT, Jp.), D. Narducci (U. Milano Bicocca, It.)

Correspondence: M. Ohta (AIST, Jp.), K. Biswas (JNU Bangalore, India)

Organizers: T. Mori (NIMS, Jp.), M. Ohtaki (Kyushu U., Jp.), K. Miyazaki (Kyushu IT, Jp.), T. Takeuchi (Toyota IT, Jp.), R. Funahashi (AIST, Jp.), H. Nishikawa (Kindai U., Jp.), T. Endo (Mie U., Jp.), F. Gascoin (CRISMAT-ENSI Caen, Fr.), L. Chen (Shanghai I. Ceram., CAS, Chn.), W. S. Seo (Korea Inst. Ceram. Eng. Tech., Kr.), N. Van Nong (T. U. Dk.), J. R. Morante (IREC, Barcelona, Sp.)

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CALL FOR PAPERS

SCOPE: Thermoelectric materials are able to directly convert thermal energy wasted in plants, car engines, etc. into electrical energy. This feature is considered as highly promising to reduce mankind's dependence on nuclear power and fossil fuels, and eliminate greenhouse gas emissions. However, the path for practical applications of thermoelectrics appears still long. This symposium aims to bridge the gap between materials science and applications of thermoelectric materials.

This symposium will be partially supported by AAT (Asian Association of Thermoelectrics) in promotion of cooperation between thermoelectric researchers in Asia. It will be endorsed by THO (Team Harmonized Oxides, Japan) and AIT (Italian Thermoelectric Society).

A one-day intensive school on material science and engineering of thermoelectrics will be organized by AAT as a pre-conference event of IUMRS-ICAM 2017 in Kyoto

TOPICS OF INTEREST:

1. New thermoelectric compounds
2. Correlation between material structure and thermoelectric properties
3. Bulk thermoelectric ceramics, oxides and chalcogenides
4. Bulk thermoelectric alloys and intermetallics
5. Organic and polymeric thermoelectrics
6. Thermoelectric thin films, multilayers and nanocomposites
7. Theory and modelling
8. Thermal transport and thermal conductivity
9. Applications and devices based on thermoelectric materials
10. Standardization and metrology

INVITED SPEAKERS (TENTATIVE):

K. Suekuni (Kyushu U., Jp.), L. Zhao (Beihang U., Chn.), K. Kovnir (UC Davis, USA), In Chung (Seoul Nat. U., Kr.), P. F. P. Poudeu (U. of Michigan, USA), E. Guilmeau (CRISMAT, Fr.), Y. Grin (Director MPI-CPfS, Ger.), J. He (S U Sci. Tech., Chn.), I. Terasaki (Nagoya U., Jp.), S. Aminorroaya-Yamini (U. Wollongong, Aus.), P. Jood (AIST, Jp.), S. N. Lee (Korea Inst. Ceram. Eng. Tech., Kr.), C. Wan (Tsinghua U., Chn.) M. Karrpinen (Aalto U., Fi.) H.-Ul. Habermeier (Max-Planck Inst. Solid St. Res., Ger.), H. Ohta (Hokkaido U., Jp.), U. V. Waghmare (JNCASR- Bangalore, India,) M.-W. Oh (Hanbat Nat. U., Kr.)