

## 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 (JNCASR 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. The 2017 edition of ACT (Asian Conference on Thermoelectrics) is held in conjunction with this symposium. The symposium 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.

Satellite workshop on "Advanced Materials and Principles to Develop Viable Thermoelectrics & Effective Thermal Management" will be held on Sept. 1,2 2017 at NIMS Tsukuba, Japan.

### **TOPICS OF INTEREST:**

1. New thermoelectric compounds
2. 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

### **KEYNOTE SPEAKERS:**

R. Funahashi (AIST, Jp.), Y. Grin (MPI-CPfS, Ger.), K. Koumoto (Toyota PCRI, Jp.), S. Lee (KICET Kr.), Q. Li (BNL, USA), Y. Miyazaki (Tohoku U., Jp.) G. Min (Cardiff U., UK) G. J. Snyder (NW U.), C. Wan (Tsinghua U., Chn.) J. Yang (U. of Washington, USA)

### **INVITED SPEAKERS:**

H. Anno (Tokyo U. Sci, Jp) , D. Berthebaud (CRISMAT, Fr.), K. Biswas (J NCASR Bangalore, Ind), A. Cabot (IREC, Spa), In Chung (Seoul Nat. U., Kr.), P. Eklund (Linkoping U., Swe), C. Fanciulli (CNR, IT), E. Guilmeau (CRISMAT, Fr.), H.-U. Habermeier (Max-Planck Inst. Solid St. Res., Ger.), J. He (S U Sci. Tech., Chn.), K. Hippalgaonkar (A-Star, Sg), T. Ikeda (Ibaraki U., Jp.), P. Jood (AIST, Jp.), M. Karpinen (Aalto U., Fi.), K. Kovnir (UC Davis, USA), K. H. Lee (Kangwon U., Kor.), Y.S. Lim (Pukyong U. Kr), W. Liu (Wuhan U.T., Chn), N. Neophytou (U. of Warwick, UK), , Y. Nonoguchi (Nara IT, Jp), N. Van Nong (TU Denmark), M.-W. Oh (Hanbat Nat. U., Kr.), H. Ohta (Hokkaido U., Jp.), P. F. P. Poudeu (U. of Michigan, USA), X. Shi (Shanghai Inst. Ceram, Chn.), A. Powell (Reading U., UK), K. Suekuni (Kyushu U., Jp.), I. Terasaki (Nagoya U., Jp.), J. Thimont (CIRIMAT, Fr.), U. V. Waghmare (JNCASR- Bangalore, Ind.), L. Zhao (Beihang U., Chn.), T. Zhu (Zhejiang U., Chn.),and more!



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