

ACT2017(2nd Asian Conference on Thermoelectrics)のアップデートとAAT Summer Schoolの開催

今年、武漢のICT2016/ACT2016で日中韓を中心にアジア熱電連盟(AAT)が立ち上がりましたが、正念場の2年目の行事として、日本主催の、ACT2017(2nd Asian Conference on Thermoelectrics)が、次のように開催されますので、奮ってご参加下さい。

2017年の8月27日～9月1日に京都(京都大学吉田キャンパス)で開催されるIUMRS-ICAM2017のA-5熱電シンポジウムという形で開催されます。

招待講演者なども、添付致しますポスターのようにアップデートされました。

今年ICT2016/ACT2016の武漢でもとても好評だった、若手、中堅研究者奨励のためのAAT独自の行事であるAAT Summer Schoolも、添付致しますご案内のように8月27日(日)の午後に開催されます。

どうぞ奮ってご参加ください。

日程: 2017年8月27日～9月1日

場所: 京都大学吉田キャンパス

詳細: [2～4ページ目資料](#)

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

<http://www.iumrs-icam2017.org/program/forums.html>

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.)

Designed by S. Horii

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 half-day intensive school on material science and engineering of thermoelectrics, the AAT Summer School, 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 (PARTIAL LIST):

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. 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 (KICET, Kr.) C. Wan (Tsinghua U., Chn.) M. Karpinen (Aalto U., Fi.) H.-Ul. Habermeier (MPI-SSR, Ger.) H. Ohta (Hokkaido U., Jp.) U. V. Waghmare (JNCASR, Ind.) M.-W. Oh (Hanbat N U, Kr.) W. Liu (WUT, Chn.) Y. Miyazaki (Tohoku U., Jp.) X. Shi (SICCAS, Chn.) H. Anno (TUS, Jp.) T. Zhu (Zhejiang U., Chn.) G. Min (Cardiff, UK) K. H. Lee (Kangwon N U, Kr.) G. J. Snyder (Northwestern U., USA) Q. Li (Brookhaven NL, USA) J. Yang (U. Washington, USA) P Eklund (Lingköping U, Sweden) K. Koumoto (Toyota PCRI, Jp.) and more!



Announcement and schedule of 2nd AAT Summer School

The materials science and engineering of thermoelectricity play key roles in realizing high-efficiency direct heat-to-electricity conversion.

Following the success of first edition of 2016 in Wuhan (in the framework of ICT2016) this second edition of thermoelectric summer school will be organized by the Asian Association of Thermoelectrics (AAT) as a pre-conference event of Symposium A5 at IUMRS-ICAM 2017 in Kyoto.

The aim of the school is to provide both beginners and younger researchers with a short course on basic science and technologies of thermoelectricity. This tutorial will broadly cover theories on electrical/thermal transports, new phenomena/concepts, and also address designing devices and systems for practical applications.

All students, younger researchers, and beginners under the auspice of AAT are encouraged to apply for the slots allotted to each thermoelectric body society in China, Japan, and Korea (20 slots each). The extra slots (about 20) will be booked on a “first-come, first-served” basis.

Time: August 27, 2017, 13:00-17:30

Location: Kyoto University, Yoshida Campus, Institute of Liberal Arts and Sciences (ILAS) building, 3rd floor, room 31

<http://www.z.k.kyoto-u.ac.jp/facility-guide/ilas-bldg>

Registration fee: Free for students and researchers from universities and public organizations

Total capacity: around 80 slots

Application: send e-mail to Paolo Mele (Muroran IT, Japan, pmele@mmm.muroran-it.ac.jp) or one of the organizers

Organizers: Lidong Chen (Shanghai Institute of Ceramics, CAS, China, cld@mail.sic.ac.cn) ; Takao Mori (National Institute for Materials Science, Japan, MORI.Takao@nims.go.jp) ; Wonseon Seo (Korea Institute of Ceramic Engineering Technology, Korea, wsseo@kicet.re.kr)

Topics:

13:00–14:05

Theoretical Considerations for Enhancing Thermoelectric Properties

Yukari Katsura (Univ. Tokyo, Japan)

14:05–15:10

Novel Concepts

Jong-Soo Rhyee (Kyung Hee University, South Korea)

10 minutes break

15:20–16:25

Processing of Advanced Thermoelectric Materials

Jing-Feng Li (Tsinghua University, China)

16:25–17:00

Applicative Issues for Thermoelectrics

Woosuck Shin (AIST, Japan)