

(20) Thermoelectrics

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DETAILED PROGRAMME

Monday, 16-12-2013

Session I : 10.15 – 11.15

10.15 - 10.45 Invited Talk (1)	<u>R.C. Budhani</u> , A. Dhar, Jiji Pullikotil, S. Auluck, D.K. Mishra, B. Sivaiah, M. Sarvanan and B. Gahtori	ABS - Email - ICA Development of advanced thermoelectric materials and devices for energy harvesting
10.45 - 11.15 Invited Talk (2)	<u>Tsutomu Iida</u> , Tatsuya Sakamoto, Yutaka Taguchi, Naomi Hirayama, Manashi Ishikawa, Takashi Nemoto, Yasuo Kogo, Keishi Nishio, and Yoshifumi Takanashi	ABS - 1676 - ICA Waste heat recovery using environmentally benign Mg ₂ Si for reducing automotive CO ₂ emission

Session II : 11.45 – 13.15

11.45 - 12.15 Invited Talk (3)	<u>Franck Gascoin</u> , Nunna Raghavendra, Emmanuel Guilmeau	ABS - 928 - ICA Thermoelectric properties of layered titanium chalcogenides
12.15 - 12.45 Invited Talk (4)	<u>P. Banerji</u> and P.K. Rawat	ABS - 1542 - ICA Different approaches towards high thermoelectric power conversion efficiency in PbTe based materials
12.45 - 13.00 Oral (1)	<u>B. Deb</u> Y. Ishoda Y. Shinohara	ABS - 1047 - ICA Effect of Annealing on Bi ₂ Te ₃ Thin Films and Their Thermoelectric Performance Assessment Strategy
13.00 - 13.15 Oral (2)	<u>Ashoka Bali</u> Il-Ho Kim and Ramesh Chandra Mallik	ABS - 1182 - ICA Thermoelectric properties of PbTe with indium and bismuth secondary phase

Session III : 16.00 – 18.00

16.00 - 16.30 Invited Talk (5)	<u>R. Okazaki</u> , A. Horikawa, P.S. Mondal, M. Fujita, H. Ohta and I. Terasaki	ABS - 804 - ICA Photothermoelectric property in oxide compounds
16.30 - 17.00 Invited Talk (6)	<u>E. Guilmeau</u> , M. Beaumale, T. Barbier, O. Lebadev, Y. Breard, Y. Kinemuchi and A. Maignan	ABS - Email - ICA Phonon scattering in layered TiS ₂ compounds
17.00 - 17.15 Oral (3)	<u>Yoshikazu Shinohara</u>	ABS - 1128 - ICA Thermoelectric research activities in the Southeast Asia
17.15 - 17.30 Oral (4)	<u>S.R. Kumar</u> A.I. Abutaha and T.M. Tritt H.N. Alshareef	ABS - 1679 - ICA Strategies for Improving the Performance of Thermoelectric Oxide Thin Films and Superlattices

17.30 - 18.00 Invited Talk (7)	<u>D.K. Aswal</u>	ABS - Email - ICA Quest of Efficient Thermoelectric Power Generators
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Tuesday, 17-12-2013

Session IV : 11.45 – 13.15

11.45 - 12.15 Invited Talk (8)	<u>Junichiro Shiomi</u>	ABS - Email - ICA Phonon transport in nanostructured thermoelectric materials
12.15 - 12.45 Invited Talk (9)	<u>Ramesh Chandra Mallik</u>	ABS - 1616 - ICA The role of interfaces in the thermoelectric properties of bulk PbTe with encapsulated bismuth and indium phases
12.45 - 13.00 Oral (5)	<u>Sanjay Kumar Kedia,</u> Anil Singh and Sujeet Chaudhary	ABS - 90 - ICA Characterization of Codoped (In, Z): ZnO by Indigenous Thermopower Measurement System
13.00 - 13.15 Oral (6)	<u>Dinesh K. Misra</u> Aman Bhardwaj Ankita Rajput Ajay Dhar and R. C. Budhani	ABS - 1379 - ICA Half-Heusler based thermoelectric nanocomposites : A compositional engineering approach for achieving high figure of merit

Session V : 16.00 – 18.00

16.00 - 16.30 Invited Talk (10)	<u>Ajay Soni</u> and Qihua Xiong	ABS - 1514 - ICA Role of Interfaces in Thermoelectric Performance of Bulk Nanocomposites
16.30 - 17.00 Invited Talk (11)	<u>Kanishka Biswas</u>	ABS - 1516 - ICA New Approaches to enhance the Thermoelectric Performance of Te-free Bulk Chalcogenides
17.00 - 17.15 Oral (7)	<u>Anbalagan R</u> Peter Rogl Esmail Royanian Ernst Bauer Saytam Suwas and Ramesh Chandra Mallik	ABS - 1072 - ICA Thermoelectric Properties of InSb added $\text{Co}_4\text{Sb}_{12}$ Skutterudites
17.15 - 17.30 Oral (8)	<u>Sukanti Behera</u> C. Shivakumara and Arun M. Umarji	ABS - 1615 - ICA Thermoelectric properties of co-doped CaMnO_3

Poster Session :
Tuesday, 17-12-2013, 14.00 - 15.30

20 - Poster - 01	Sanjay Kumar Kedia, Anil Singh and Sujeet Chaudhary	Characterization of Codoped (In, N): ZnO Indigenous Thermopower Measurement System	ABS - 90 - ICA
20 - Poster - 02	Madavali Babu, Hyo-Seob Kim and Soon Jik Hong	An investigation on the microstructure and thermoelectric properties of bismuth telluride alloys by mechanical alloying and spark plasma sintering	ABS - 256 - ICA
20 - Poster - 03	P.K. Rawat and P. Banerji	Thermoelectric properties of Yb-doped $PbTe_{1-x}I_x$: Effect of Fermi level pinning and redistribution of charge carriers on various transport parameters	ABS - 751 - ICA
20 - Poster - 04	Sajid Ahmad, Nishtha Saxena, Ranita Basu, Ajay Singh, D.K. Aswal and S.K. Gupta	Thermoelectric performance of the nanostructured p-type SiGe bulk alloy	ABS - 985 - ICA
20 - Poster - 05	Y. Isoda, M. Held, S. Tada and Y. Shinohara	Power generation properties of $Mg_2Si_{0.75}Sn_{0.25}$ with doped Al and Sb	ABS - 1055 - ICA
20 - Poster - 06	Kriti Tyagi, Bhaskar Gahtori, Bathula Sivaiah, A.K. Srivastava, Ajay Dhar, R.C. Budhani	Chromium doped nanostructured Cu_2Se : A potential candidate for future thermoelectric devices	ABS - 1085 - ICA
20 - Poster - 07	Ch.Raju, M. Falmbigl, P. Rogl, S-W. You, Il-Ho Kim and Ramesh Chandra Mallik	Thermoelectric properties of Indium doped Cu_2GeSe_3	