

Wednesday, September 24



Morning session

8:00 Ernst Bauer, Vienna, Austria
Novel thermoelectric materials

9:00 Massimo Rontani, Modena, Italy
Thermoelectric properties of metal/excitonic insulator interfaces

10:00 coffee break

10:30 Bernard Coqblin, Paris, France
Thermoelectric power and thermal transport of anomalous rare-earth Kondo compounds

11:30 Sriram Shastry, Santa Cruz, USA
Thermal and thermoelectric transport in correlated systems: A new perspective

Lunch & afternoon break

Afternoon session

16:00 Poster session and additional questioning time for the mornings talks

17:00 Krzysztof Gofryk, Karlsruhe, Germany
Thermoelectric power of transuranium-based unconventional superconductors

17:30 Karen Michaeli, Rehovot, Israel
Particle-hole asymmetry in transverse transport phenomena such as Hall and Nernst

18:00 Jose I. Espeso, Santander, Spain
When simple alloys turn into complicated

Dinner break

21:00 After-dinner discussion
Zach Fisk, University of California, Riverside, USA
What can we learn from the past?

Thursday, September 25



Morning session

8:00 Zach Fisk, Riverside, USA
Taking what we learn from the rare earth intermetallics into transition metal materials

9:00 Gertrud Zwicknagl, Braunschweig, Germany
Quasiparticles and magnetization dynamics of Yb-based heavy-fermion compounds

10:00 coffee break

10:30 Silke Buehler-Paschen, Vienna, Austria
Strongly correlated cage compounds: New thermoelectrics

11:15 Sergei Kruchinin Kiev, Ukraine
Thermoelectricity in double-barrier structure with the resonant tunneling

12:00 The ARW program ends. Closing remarks by Alex Hewson.

Lunch & afternoon break

The Conference on Correlated Electrons continues in the afternoon.

Organizing Committee

Program committee

E. Bauer, Vienna, Austria
B. Coqblin, Paris, France
M. B. Maple, San Diego, USA
J. Sarrao, Los Alamos, USA

Directors of the NATO ARW

V. Zlatić, Zagreb, Croatia
A. Hewson, London, UK
J. Freericks, Georgetown, USA



Workshop on Properties and Applications of Thermoelectric Materials



September 20th - 26th 2008

Hvar, Croatia



hvar08.ifs.hr



Programme

Sunday, September 21



Morning session

8:00 Veljko Zlatić, Zagreb, Croatia
Opening of the workshop

8:10 Toshiro Takabatake, Hiroshima, Japan
Thermoelectrics of Kondo semiconductors and clathrates

9:10 S. Kamran Behnia, Paris, France
Nernst effect and the thermomagnetic figure of merit in light- and heavy-electron semi-metals

10:10 coffee break

10:40 S. Dariusz Kaczorowski, Wroclaw, Poland
Rare-earth-based half-Heusler compounds as prospective materials for thermoelectric applications

11:40 Peijie Sun, Dresden, Germany
Enhanced Thermoelectricity in the Correlated Semiconductor FeSb_2

Lunch & afternoon break

Afternoon session

16:00 Poster session and additional questioning time for the mornings talks

17:00 Karsten Held, Wien, Austria
Pudding mold type band as the origin of large thermopower in LiRh_2O_4

18:00 Richard Hlubina, Bratislava, Slovakia
Optimal thermoelectric materials: beyond the Mahan-Sofa approach

18:45 Veljko Zlatić, Zagreb, Croatia
Multiple energy scales of strongly correlated electrons revealed by the thermoelectric transport data

Monday, September 22



Morning session

8:00 Brian Maple, USA
Strongly correlated electron phenomena in filled skutterudites

9:00 Gabi Kotliar, USA
Applied physics on strong correlation

10:00 coffee break

10:30 Jim Freericks, Washington D.C., USA
Thermoelectric response of correlated multilayers

11:30 Antonio Pereira Gonçalves, Sacavem, Portugal
New approaches to thermoelectric materials

Lunch & afternoon break

Afternoon session

16:00 Poster session and additional questioning time for the mornings talks

17:00 Peter Rogl, Vienna, Austria
Thermoelectric Clathrates - Structure - Property Relations

18:00 Rene Monnier, Zurich, Switzerland
Effects of the crystal field splitting on the thermal transport of correlated electrons

18:45 Vinh Hung Tran, Wroclaw, Poland
Thermoelectric properties of non-fermi liquid systems

Dinner break

21:00 After-dinner discussion
Sriram Shastry, Santa Cruz, USA
Frequency dependent thermoelectric response - new insights in old problems

Tuesday, September 23



Morning session

8:00 Sadamichi Maekawa, Sendai, Japan
Thermal Current, Spin Current and Charge Current in Strongly Correlated Materials

9:00 Brian Sales, Tennessee, USA
A Critical Overview of Recent Approaches to Improved Thermoelectric Materials

10:00 coffee break

10:30 Claude Godart, Paris, France
Role of structures on thermal conductivity in thermoelectric materials

11:30 Niels Oeschler, Dresden, Germany
Low-temperature thermoelectric power of strongly correlated f-electron systems

Lunch & afternoon break

Afternoon session

16:00 Poster session and additional questioning time for the mornings talks

17:00 Gerd Czycholl, Bremen, Germany
Influence of impurities and crystal field effects on the thermopower of heavy-fermion systems

18:00 Andreas Ruegg, Zurich, Switzerland
Role of multiple subband renormalization in the electronic transport of correlated oxide

18:30 Hand Zenia, Washington, DC, USA
Dynamical mean-field application to thermal transport in correlated heterostructures

Workshop dinner