## Program

### Sunday, 08 April 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>17:00 – 21:00</td>
<td>Registration</td>
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<tr>
<td>18:00</td>
<td><strong>BUFFET SUPPER / Informal get together</strong></td>
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<tr>
<td>19:30 – 19:35</td>
<td>Gabi Schierning Opening and welcome words</td>
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<tr>
<td>19:35 – 20:20</td>
<td>Jeff Snyder Engineering thermal and electrical interfaces and grain boundaries in thermoelectric materials</td>
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<tr>
<td>20:20 – 21:05</td>
<td>Bo Brummerstedt Iversen Structural thermoelectrics</td>
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### Monday, 09 April 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>07:30</td>
<td>BREAKFAST</td>
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<tr>
<td>08:30 – 09:15</td>
<td>David C. Johnson Optimizing thermal conductivity, power factors and contacts using heterostructures</td>
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<tr>
<td>09:15 – 10:00</td>
<td>Pamela Norris Tuning phonon transport: From interfaces to nanostructures</td>
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<td>10:00 – 10:30</td>
<td>COFFEE BREAK</td>
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<tr>
<td>10:30 – 10:55</td>
<td>Johannes de Boor Towards magnesium-silicide based thermoelectric generators: contact development for n- and p-type Mg2X (X=Si,Sn)</td>
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<td>10:55 – 11:20</td>
<td>Axel Rost Joining of ceramic based thermoelectric generators</td>
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<td>11:20 – 11:45</td>
<td>Pawel Ziolkowski TEG design for waste heat recovery at an aviation jet engine nozzle</td>
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<td>11:50</td>
<td>Conference Photo (in front of the Physikzentrum)</td>
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<td>12:00</td>
<td>LUNCH</td>
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Monday, 09 April 2018

High temperature thermoelectric energy conversion

13:45 – 14:30   Anke Weidenkaff  
High temperature thermoelectric materials

14:30 – 15:15   Andrea Pickel  
Extending thermoelectricity to 3,000 K via reduced graphene oxide films

15:15 – 15:40   Franziska Maculewicz  
Thermoelectric charge separation within pn-junction TEGs

15:40 – 16:00   COFFEE BREAK

16:00 – 18:00   Poster Session

18:45   DINNER
Program

Tuesday, 10 April 2018

07:30          BREAKFAST

Materials and mechanism

08:30 – 08:55  Matthias Agne  Minimum thermal conductivity in the context of diffusion-mediated thermal transport

08:55 – 09:20  Ran He  P-type ZrCoBi-based half-Heuslers with a high thermoelectric conversion efficiency of ~9%

09:20 – 09:45  Joaquin Miranda  Demixing and ordering in Ni(Ti,Zr)(Sb,Sn) and Co(Ti,Zr)(Sb,Sn) half-Heusler materials

09:45 – 10:10  COFFEE BREAK

Linking materials, manufacturing, and systems

10:15 – 11:00  Sanyia LeBlanc  Cost-performance perspectives of thermoelectric devices: Linking materials, manufacturing, and systems

11:00 – 11:45  Gerhard Span  Necessities for building successful thermoelectric systems

12:00          LUNCH
Program

Tuesday, 10 April 2018

**Thermoelectronic energy conversion**
14:00 – 14:45 Jochen Mannhart

**Thin films and microstructured thermoelectric devices**
14:45 – 15:10 Guodong Li

15:10 – 15:40 **COFFEE BREAK**

15:40 – 16:05 Maik Wagner-Reetz

16:05 – 16:30 Marc Lindorf

16:30 – 16:55 Felix Timmermann

16:55 – 17:05 Gabi Schierning

18:30 **HERAEUS DINNER**
*(cold & warm buffet with complimentary drinks)*
Wednesday, 11 April 2018

07:30 BREAKFAST

Thermoelectric materials and characterization

08:30 – 08:55 Christoph Bauer
Wet chemical synthesis and processing of 2D SnS and SnSe nanosheets

08:55 – 09:40 Gavin Vaughan
Diffraction-Based Characterization of Local Structure in Three Dimensions under Operando Conditions

09:40 – 10:05 Stefan Schwarzmüller
Structural characterization of thermoelectric materials with mobile atoms

10:05 – 10:35 COFFEE BREAK

10:35 – 11:20 Kanishka Biswas
Low thermal conductive metal chalogenides for high performance thermoelectrics

11:20 – 11:45 Pascal Boulet
Relationship between structure and thermoelectric properties in tetrahedrite

11:45 – 12:10 Wolfgang Tremel
Argyrodite thermoelectrics

12:10 – 12:15 Gabi Schierning
Closing remarks

12:25 LUNCH

End of the seminar and FAREWELL COFFEE / Departure

Please note that there will be no dinner at the Physikzentrum on Wednesday evening for participants leaving the next morning.