



## Thermoelectric Network UK Meeting

Manchester

14-15 February 2017

For Registration - Please click [here](#)

### Tuesday, 14 February 2017

09:30 – 10:00 Tea and Coffee

10:00 – 10:10 Welcome and Introduction

10:10 – 10:40 **Anke Weidenkaff**, University of Stuttgart, Germany  
Synthesis methods for complex oxides and intermetallics for high temperature thermoelectric converters  
(25 minutes plus 5 minute discussion)

10:40 – 11:10 **Derek Sinclair**, University of Sheffield, UK  
Electrical heterogeneity, anomalous conductivity and thermoelectricity in reduced (n-type) perovskite titanates  
(25 minutes plus 5 minute discussion)

11:10 – 11:40 **Emmanuel Guilmeau**, CRISMAT Caen, France  
Intrinsically low thermal conductivity in some Cu-based ternary / quaternary sulfides  
(25 minutes plus 5 minute discussion)

11:40 – 12:10 **Ryoji Funahashi**, AIST, Japan  
Improvement of thermoelectric properties for materials and systems  
(25 minutes plus 5 minute discussion)

12:10 – 12:15 Discussion

12:15 – 13:30 Lunch and Poster Session

13:30 – 13:50 **Sebastian Long**, University of Reading, UK  
Thermoelectric Performance of PLEC Materials  
(15 minutes plus 5 minute discussion)

13:50 – 14:20 **Kees De Groot**, University of Southampton, UK  
Non aqueous electrodeposition of metal chalcogenides for thin film thermo-electric generators  
(25 minutes plus 5 minute discussion)

14:20 – 14:40 **Hatef Sadeghi**, Lancaster University, UK  
Thermoelectric energy harvesting with single molecules and self-assembled monolayers  
(15 minutes plus 5 minute discussion)

14:40 – 15:10 **Maarit Karppinen**, Aalto University, Finland  
Preparation of thin film thermoelectrics by ALD and superlattice structures  
(25 minutes plus 5 minute discussion)

- 15:10 – 15:15 Discussion
- 15:00 – 15:45 Tea and Coffee**
- 15:45 – 16:15 **Sylvie Hebert**, CRISMAT Caen, France  
Some examples of low dimensional thermoelectrics  
(25 minutes plus 5 minute discussion)
- 16:15 – 16:45 **Takao Mori**, NIMS, Japan  
Utilizing Magnetic Semiconductors and Bottom-up Nanostructuring Methods for Enhanced Thermoelectrics  
(25 minutes plus 5 minute discussion)
- 16:45 – 17:00 Discussion and Close of Session**
- 

## Wednesday, 15 February 2017

- 09:15 – 09:20 Welcome and Introduction
- 09:20 – 09:40 **Srinivasarao Popuri**, Heriot-Watt University, UK  
High zT thermoelectric SnSe: Role of structural anharmonicity, texturing and competing bonding requirements  
(15 minutes plus 5 minute discussion)
- 09:40 – 10:10 **GP Srivastava**, University of Exeter, UK  
Theoretical Ingredients for Tuning Thermoelectric Properties of Semiconducting Materials  
(25 minutes plus 5 minute discussion)
- 10:10 – 10:30 **Samuel Foster**, University of Warwick, UK  
Monte Carlo simulations for extracting the power factor in 1D systems  
(15 minutes plus 5 minute discussion)
- 10:30 – 11:10 Tea and coffee**
- 11:00 – 11:30 **Quentin Ramasse**, SuperSTEM Laboratory, UK  
Advanced electron spectroscopy of thermoelectric oxides  
(25 minutes plus 5 minute discussion)
- 11:30 – 12:00 **Rob Dorey**, University of Surrey, UK  
Manufacture of thermoelectrics  
(25 minutes plus 5 minute discussion)
- 12:00 – 12:20 **Prospero Taroni**, Queen Mary University of London, UK  
Integrating the thermoelectric and sensing properties of pedot materials into self-powered devices  
(15 minutes plus 5 minute discussion)
- 12:20 – 12:30 Discussion

**12:30 – 13:50 Lunch and Poster Session**

13:50 – 14:20 **Simon King**, Cambridge Display Technologies, UK  
Progress in printable TEGs  
(25 minutes plus 5 minute discussion)

14:20 – 14:50 **Mehmet Ozturk**, North Carolina State University (ASSIST Program), USA  
Thermoelectric Energy Harvesting Research at the ASSIST Engineering Research Centre toward Self-Powered Wearable Electronics for Health and Environment Monitoring  
(25 minutes plus 5 minute discussion)

**14:50 – 15:20 Tea and Coffee**

15:20 – 15:50 **Hugo Williams**, University of Leicester, UK  
Engineering performance of thermoelectrics for space radioisotope power systems  
(25 minutes plus 5 minute discussion)

15:50 – 16:20 **Mark Robbins**, ETL, UK  
Thermoelectric modules for space exploration applications  
(25 minutes plus 5 minute discussion)

16:20 – 16:50 **Jan Koenig**, Fraunhofer-Institut für Physikalische Messtechnik IPM, Freiburg, Germany  
Thermoelectric waste heat recovery on the way to mass production and into applications  
(25 minutes plus 5 minute discussion)

**16:50 – 17:00 Discussion and Close of Meeting**

**EPSRC Thermoelectric Network UK**

Email: [info@thermoelectricnetwork.co.uk](mailto:info@thermoelectricnetwork.co.uk)

Web: <http://www.thermoelectricnetwork.com/>

 [Twitter](#)

