

# THERMiO 19' Spring Scientific Workshop

- Time: 09:00 - 14:00, 15th, February 2019,
- Location: HAGEN 4, Forskningsparken (Bygg B, Plan 0) Oslo

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09:00 - 09:05 **Opening** Truls Norby

09:05 - 09:50 **Invited talk:** Claude Estournes

*Spark Plasma Sintering and Thermoelectricity: from densification of materials to the behavior of modules*

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## Section 1: Chair Reshma Madathil

09:50 - 10:05 Raphael Schuler, *PhD student* **UiO THERMiO**

*The iron tungstates n-p-junction*

10:05 - 10:20 Henrik Riis, *PhD student* **UiO THERMiO**

*Oxidation of ZnSb*

10:20 - 10:35 Ole Martin Løvvik, *Senior Scientist* **SINTEF Industry**

*First principles screening of oxide perovskites for thermoelectric applications*

10:35 – 10:50 Andreas Connor Olofsson *Master student* **UiO SMN**

*Ca<sub>3</sub>CoMnO<sub>6</sub> as a potential component in oxide thermoelectric modules*

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10:50 – 11:00 Coffee break

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## Section 2: Chair Xin Song

11:00 - 11:15 Marie-Laure Fontaine, *Senior Scientist* **SINTEF Industry**

*Design insight from modelling*

11:15 - 11:30 Nikola Kanas, *Postdoc* **NTNU**

*Time-enhanced performance of the all-oxide thermoelectric generator consisting of p-type Ca<sub>3</sub>Co<sub>4</sub>O<sub>9+δ</sub> and n-type Ca<sub>0.931</sub>MnO<sub>3</sub> (composite) due to high-temperature interfacial chemistry*

11:30 – 11:45 Reshma Madathil, *PhD student* **UiO THERMiO**

*Influence of composite molar composition on the electrical properties of the ZnO-composite-NiO junction*

11:45 - 12:00 Xin Song, *Postdoc* **UiO THERMiO**

*Ohmic contact resistance for intermetallic thermoelectric material*

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12:00-13:00 Lunch

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13:00 -14:00 Continuous discussion