

**The 2<sup>nd</sup> Swedish Terahertz workshop  
28<sup>th</sup> of March 2019, IFM Linköping University**

**Program**

**THz components and infrastructures**

- 9.00 – 9.15 Vanya Darakchieva and Mathias Schubert – Welcome address  
9.15 – 9.45 Jan Stake, Chalmers – The THz lab at Chalmers - overview  
9.45 – 10.15 Joachim Oberhammer, KTH – THz micromachining - enabling the large-scale exploitation of the THz frequency spectrum?  
10.15 – 10.45 Philipp Kühne, LiU – Overview of the THz Materials Analysis Center at LiU  
10.45 – 11.00 Coffee

**New Materials and phenomena**

- 11.00 – 11.30 Stefano Bonetti, Stockholm University – THz dynamics of quantum materials  
11.30 – 12.00 Dag Hanstorp, GU – Laser spectroscopy of optically levitated particles  
12.00 – 12.15 Sean Knight, UNL – Optical Hall effect enhancement techniques in 2D- and 3D materials  
12.15 – 12.30 Alyssa Mock, NRL – Generalized ellipsometry on low-symmetry materials  
12.30 – 13.30 Lunch

**Bio applications**

- 13.30 – 14.00 Helena Rodilla, Chalmers – Exploring life with THz  
14.00 – 14.30 Gergely Katona, GU – Folding of protein structures by terahertz dynamics  
14.30 – 15.00 Magnus Jonsson, ITN – Hybrid plasmonics  
15.00 – 15.15 Shangzhi Chen, LiU – Optical conductivity of PEDOT from the THz to UV  
15.15 – 16.00 Coffee and TheMAC tour (3 groups, 15 min/group)

**Semiconductors and Metamaterials**

- 16.00 – 16.15 Tino Hofmann, UNC Charlotte – New Approaches for THz Metrology and metamaterial-based sensing  
16.15 – 16.30 Carl Ponseca, LiU – Pulsed Terahertz Emission from Lead Iodide Perovskite Films  
16.30 – 16.45 Stefan Zollner, New Mexico State University – Direct band gap of alpha-tin investigated by infrared ellipsometry  
16.45 – 17.00 Nerijus Armakavicius, LiU – Studying 2DEG in GaN transistor structures with THz Optical Hall effect  
17.00 – 17.15 Chris Zollner, UCSB – Reducing residual stress and dislocation density in AlN films grown on SiC by MOCVD for UV-C LED applications  
17.15 – 17.30 Chams Bouhafs – Impact of substrate on thermal and optical properties of 2D materials