



iMAT

AARHUS UNIVERSITY CENTRE FOR
INTEGRATED MATERIALS RESEARCH

iMAT Student and Post Doc Seminar Day

8³⁰ – 13⁵⁰ March 1st 2024

AIAS Auditorium (1632-201)

Agenda

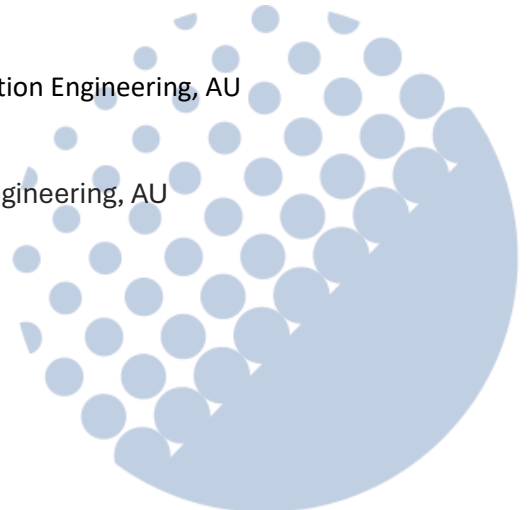
8³⁰ – 9⁰⁰ Coffee & Breakfast – Outside of the AIAS auditorium

Session One

- 9⁰⁰ – 9¹⁰ **Welcome** - Ramin Aghababaei
- 9¹⁰ – 9³⁰ **Jonas Hund**, Department of Mechanical and Production Engineering, AU
Modelling the behaviour of porous materials using a network approach
- 9³⁰ – 9⁵⁰ **Ihsan Ahmed Kolasseri**, Department of Physics and Astronomy, AU
High pressure studies on quantum spin liquid candidates
- 9⁵⁰ – 10¹⁰ **Sage Fulco**, Mechanical Engineering & Applied Mechanics, University of Pennsylvania
Controlling Interfacial Toughness via Geometry and Architected Plasticity
- 10¹⁰ – 10³⁰ **Sahar Esmizadeh**, Department of Mechanical and Production Engineering, AU
Investigating the Factors Influencing Dendrite Growth in Solid-State Lithium Battery Electrolytes
- 10³⁰ – 10⁵⁰ **Coffee Break**

Session Two

- 10⁵⁰ – 11¹⁰ **Mahboubeh Motadayan**, Department of Electrical and Computer Engineering, AU
Sustainable Electronics: Biodegradable Materials and AI Integration
- 11¹⁰ – 11³⁰ **Jens Moesgaard**, Department of Chemistry, AU
The Boson Peaks in Amorphous Phase-Change-Material
- 11³⁰ – 11⁵⁰ **Hemanshul Garg**, Department of Mechanical and Production Engineering, AU
Passive viscous flow selection via fluid-induced buckling
- 11⁵⁰ – 12¹⁰ **Ping Hu**, Department of Mechanical and Production Engineering, AU
On control of delamination by width-varying interface
- 12¹⁰ – 12⁵⁰ **Lunch** – AIAS Hall (1631-101)



Session three

12⁵⁰ – 13¹⁰ **Magnus Nørgaard Kløve**, Department of Chemistry, AU

Machine-Learning Enhanced Structural Analysis of Nanomaterials

13¹⁰ – 13³⁰ **Riad Sahli**, Department of Mechanical and Production Engineering, AU

Frictional contact of soft polymeric shells

13³⁰ – 13⁵⁰ **Nina Kølln Wittig**, Interdisciplinary Nanoscience Center, AU

Multiscale X-ray computed tomography in materials research

