



Workshop on Interfaces in Thin-Film Photovoltaics

29th-30th March 2021

Via Zoom

Monday 29th March: Day 1

9.00 am Welcome and opening of PV Interfaces Workshop

Session 1: Computational modelling (I)

Chair: Dr Libby Gibson, Newcastle

9.10-9.40 Prof Aron Walsh: Making contact with halide perovskites

9:40-10.10 Prof Alison Walker: Understanding transport of electrons, holes and ions in perovskite solar cells

10.10-10.15 Change over time

10.15-10.45 Break out rooms: speakers 1 and 2

10.45-11.00 Virtual coffee break

Session 2: Device Fabrication (I)

Chair: Dr Vincent Barrioz, Northumbria University

11.00-11.30 Dr Jake Bowers: Improving interfaces in thin film chalcogenide photovoltaics for enhanced performance and stability

11.30-12.00 Prof Ross Hatton: Transparent electrodes for low cost photovoltaics

12.00-12.05 Change over time

12.05-12.35 Break out rooms: speakers 3 and 4



12.35-13.45 Lunch break (Poster session)

Session 3: Characterisation

Dr Budhika Mendis, Durham

13.45-14.15 Dr Mathias Rothmann: Understanding the crystallographic and microstructural properties of hybrid perovskite thin films through electron microscopy

14.15-14.45 Dr Jon Major: Deep level transient spectroscopy of photovoltaic materials

14.45-14.50 Change over time

14.50-15.20 Break out rooms: speakers 5 and 6

15.20-15.30 Virtual coffee break

Session 4: New Materials (I)

Chair: Dr Oliver Hutter, Northumbria

15.30-16.00 Dr Sam Stranks: Understanding recombination on the nanoscale in halide perovskite photovoltaics

16.00-16.30 Dr Laurie Phillips: Antimony Selenide: the long and short of an emerging absorber

16.30-16.35 Change over time

16.35-17.05 Break out rooms: speakers 7 and 8

Tuesday 30th March: Day 2

Session 5: Device Fabrication (II)

Chair: Prof: Guillaume Zoppi, Northumbria

9.00-9.30 Dr Devendra Tiwari: A path ahead for bismuth based photovoltaic inorganic solar absorbers

9:30-10.00 Prof Chris Groves: Translating Emerging PV into the real world: Challenges and Opportunities



10.00-10.05 Change over time

10.05-10.35 Break out rooms: speakers 9 and 10

10.35-11.00 Virtual coffee break

Session 6: New Materials (II)

Chair: Prof Douglas Halliday, Durham

11.00-11.30 Prof Susan Schorr: Ternary nitrides - a disorder tunable material?

11.30-12.00 Dr Marina Freitag: Smart Zombies

12.00-12.05 Change over time

12.05-12.35 Break out rooms: speakers 11 and 12

12.35-14.00 Lunch break (Poster session)

Session 7: Computational modelling (II)

14.00-14.30 Mr James Quirk: Understanding charge trapping in anatase grain boundaries

14.30-15.00 Prof David Scanlon: Understanding defects in "simple" binaries Sb_2Se_3 and CdTe

15.00-15.05 Change over time

15.05-15.30 Break out rooms: speakers 13 and 14

15.30-15.45 Conclusion of workshop/ Poster prize