

Oxford Symposium in Silicon Solar Cell technology

April 15, 2019

April 16, 2019

Time	Talk Title	Speaker	Talk Title	Speaker
9.20-9.30	Welcome to the conference	Sebastian		
9.30-10.00	Nanoscale thin films for contact and surface passivation of silicon solar cells	Bram Hoex	Industrial trends on photovoltaics	Bret Hallam
10.00-10.30	Atom Probe Tomography of Crystallographic Defects in Multicrystalline Silicon	David Tweddle	Silicon-Perovskite tandems in industry	Daniel Kirk (Oxford PV)
10.30-11.00	Hydrogen passivation and degradation in silicon solar cells	Alison Ciesla	Photoconductance based trap analysis in silicon	Yan Zhu
11.00-11.30	Coffee break		Coffee break	
11.30-12.00	Gas phase synthesis of black silicon	Eleanor Shaw	Shielded hydrogen plasma for improved solar cell passivation	Gabrielle Bourrett
12.00-12.30	Black silicon for interdigitated back contact silicon solar cells	Tasmia Rahman	Hydrogen Redistribution and Surface Degradation	Phillip Hamer
12.30-13.00	Black silicon research at UNSW	Muhammad Umair Khan	Hydrogen-Induced Degradation of PERC solar cells	Donghao Liu
13.00-14.00	Lunch in Dining Hall		Lunch in Dining Hall	
14.00-14.30	Helium Ion Microscopy of Black Silicon	Stuart Boden	Annealing Prior to Contact Firing: A Potential New Approach to Suppress LeTID	Chandany Sen
14.30-15.00	Microscale Electrical Characterisation of Silicon Solar Cells	Ruinan Zhou	Understanding Hydrogen-Induced Degradation: LETiD in n- and p-Si	Daniel Chen
15.00-15.30	Evaluation of efficacy of nickel silicide barrier layer in copper metallized silicon solar cells	Amruta Pravin Joshi	Tailoring dielectric films for controlling Light and elevated temperature induced degradation	Utkarshaa Varshney
15.30-16.00	Coffee break		Coffee break	
16.00-16.30	Machine learning in temperature- and injection-dependent lifetime spectroscopy	Ziv Hameiri	Inversion-Layer Solar Cells based on Ion-Charged Dielectrics	Joshua Deru
16.30-17.00	Accounting for coil sensitivity attenuation in high-accuracy photoconductance measurements	Lachlan Black	Exceptional silicon surface passivation arising from bis(trifluoromethanesulfonyl)-based solutions	Alex Pointon
17.00-17.30	The potential of ion charged dielectrics in solar technology	Sebastian Bonilla	Ionic Charge Kinetics in SiO ₂	Rachel Kealy

Social Programme

19.00-23.00	Wadham Room, The Kings Arms Pub: 40 Holywell Street, Oxford. Dinner/drinks (self catered)	The Ricketty Press Pub: 67 Cranham St, Oxford. Dinner/drinks (self catered)
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Wednesday, April 17th, 10.30 am - 12.30 pm, Footprints Oxford walking tour. Departs from Balliol College, Broad Street, Oxford.

Participating:



Australian National University

