

Date **29th October to 9th November 2018**
 Location **University of Liverpool**
 Building **Stephenson Institute for Renewable Energy (SIRE)**
 Room **SIRE Seminar Room**

Cohort 5 Core Level Training: Fundamentals of Photovoltaics



WEEK 1

Start time	Mon	Tue	Wed	Thu	Fri	Start time
09:30						09:30
09:45		Lecture 1: Solar Spectrum & Basic PV Device Operation Dr Oliver Hutter	Lecture 4: Junctions Dr Asim Mumtaz	Lecture 7: Solid State Reactions & Phase Diagrams Prof Ken Durose	PV Research at University of Liverpool Short talks	09:45
10:00						10:00
10:15		Break	Break	Break	Break	10:15
10:30						10:30
10:45						10:45
11:00		Lecture 2: Fundamental Limitations of Solar Cells Dr Kieran Cheetham	Lecture 5: Junction Characterisation Dr Jon Major	Lecture 8: Solar Cell Technologies Characterisation Prof Ken Durose	Team Challenge preparation	11:00
11:15						11:15
11:30						11:30
11:45						11:45
12:00		Team Challenge Introduction	Lecture Problems	Lecture Problems	Team Challenge preparation	12:00
12:15						12:15
12:30						12:30
12:45						12:45
13:00	Cohort 5 Welcome Lunch	Lunch SIRE	Lunch Vine Court	Lunch SIRE	Lunch Vine Court	13:00
13:15						13:15
13:30						13:30
13:45						13:45
14:00	Cohort 5 induction	Lecture 3: Semiconductors & Recombination Prof Ken Durose	Lecture 6: Optical Characterisation Prof Tim Veal	Lecture 9: Advanced Semiconductor Characterisation Dr Vin Dhanak	Continue to work on Team challenge & individual work on lectures	14:00
14:15						14:15
14:30		Break	Break	Break		14:30
14:45						14:45
15:00						15:00
15:15						15:15
15:30						15:30
15:45		Lecture Problems	Lecture Problems	Lecture Problems		15:45
16:00						16:00
16:15						16:15
16:30						16:30
16:45						16:45
17:00						17:00

WEEK 2

Start time	Mon	Tue	Wed	Thu	Fri	Start time
09:30						09:30
09:45	TCO Workshop Dr Max Birkett	Test on the Fundamentals of Photovoltaics Teaching Room 6, 502 Teaching Hub	Research Forum, 9am-5pm Sensor City, Liverpool See separate agenda	4th Annual CDT Showcase, 9.30am - 6.30pm Anfield, Main Stand See separate agenda		09:45
10:00						10:00
10:15						10:15
10:30	Break	Break				10:30
10:45						10:45
11:00	TCO Workshop Prof Paul Warren	Lab Session 1 Solar Lab Group work on Solar Cell & TCO characterisation Dr Laurie Phillips			Team Challenge Presentations SIRE (Prof Tim Veal)	11:00
11:15						11:15
11:30						11:30
11:45						11:45
12:00	Lunch SIRE	Lunch SIRE			Lunch SIRE	12:00
12:15						12:15
12:30						12:30
12:45						12:45
13:00						13:00
13:15						13:15
13:30	Pilkington NSG Visit Float Line Tour St Helens Coach will transport to/from NSG	Lab Session 2 Solar Lab Dr Laurie Phillips				13:30
13:45						13:45
14:00						14:00
14:15						14:15
14:30						14:30
14:45						14:45
15:00	Do read the visitor notes about safety, including appropriate footwear & clothing	Break				15:00
15:15						15:15
15:30		Lab Session 3 & Wrap up discussion in seminar room Dr Laurie Phillips				15:30
15:45						15:45
16:00						16:00
16:15						16:15
16:30						16:30
16:45						16:45
17:00						17:00