

ADVANCED CONCEPTS IN PHOTOVOLTAICS

SUMMER SCHOOL 2017 | OCTOBER 10-13



AARHUS UNIVERSITY



	Tuesday 10/10	Wednesday 11/10	Thursday 12/10	Friday 13/10
7:00-8:00	Breakfast	Breakfast	Breakfast	Breakfast and checkout
8:00-8:30	Bus to auditorium	Bus to auditorium	Bus to auditorium	Bus to auditorium
8:30-9:30	Peter Würfel: Basics of photovoltaic energy conversion	Peter Würfel: Generation and recombination of electrons & holes	Peter Würfel: Thermodynamics of Solar cells	Peter Würfel: Driving forces for charge currents in solar cells
9:30-9:45	Break	Break	Break	Break
9:45-10:45	Peter Würfel: Basics of Semiconductors	Ole Hansen: Multi-junction and tandem solar cells	Jørgen Schou: CZTS technology	Brian Julsgaard: Upconversion in rare-earth-doped materials
10:45-11:00	Break	Break	Break	Break
11:00-12:00	4 Student presentations	4 student presentations	4 student presentations	4 student presentations
12:00-12:30	Lunch break	Lunch break	Lunch break	Lunch break
12:30-13:30	Peter Balling: Getting more out of the sunlight.	Andrea Crovetto: Fast prototyping of new photovoltaic materials	Stela Canulescu: Thin Film Photovoltaics	Thue Trofod: Perovskites
13:30-13:45	Break	Break	Break	Break
13:45-14:45	Morten Madsen: Metal-oxide based interfacial layers in PV dev.	Ole Hansen: Water-splitting using solar photons	Sara Engberg: Solution processing of Thin Film Photovoltaics.	Thue Trofod: State-of-the art in Organic Photovoltaics
14:45-15:00	Break	Break	Break	Beer and Goodbye
15:00-16:00	Søren Peder Madsen: Electromagnetic Wave Propagation, FEM, and topology optimization.	Gisele Benatto: Drone based EL inspection of PV plants	Andrea Crovetto: SCAPS, numerical simulations of PV cells	
16:00-16:30	Break	Break	Break	
16:30-18:00	PV Thin film lab tour	Applied PV lab tour	5 student presentations	
18:00-19:00	Dinner	Bus to MS Sagafjor	Dinner	
19:00-19:30	Bus to hotel	Summer school Dinner on M/S Sagafjor	Bus to hotel	
19:00-22:00	Study and relax		Study and relax	

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