

**Sunday 14/09/2025**

18:00 student registration
18:00 optional: Get-together of all lecturers
20:00 welcome reception (bar)
20:30 welcome dinner

Monday 15/09/2025

P.01	08:30	Welcome and General Introduction	Robert Steinberger-Wilckens (U Bham)
	09:00	Sustainable and Renewable Energy Future	Jens Oluf Jensen (DTU)
	09:45	coffee break	
P.02	10:00	Introduction to Fuel Cells and Electrolysis	Robert Steinberger-Wilckens (U Bham)
	11:15	break	
P.03	11:30	Thermodynamics and Efficiency of Electrochemical Cells	Jens Oluf Jensen (DTU)
	13:00	lunch	
P.04	16:00	Introduction to Battery Technology	Hans Kungl (FZJ)
	17:30	coffee break	
P.05	17:45	PowerTalk - Panel discussion on the evolution of the 'hydrogen economy'	moderated by Robert Steinberger-Wilckens (U Bham) with John Bøgild Hansen, Sune Ebbesen and others
P.06	19:15	Introduction to the Students' Project	Shangfeng Du (U Bham)
	20:00	dinner	
St.01	21:00	Students' Introductions I	n.n.

Tuesday 16/09/2025

HT.01	08:30	Introduction to Solid State Chemistry & Ionics	Vaibhav Vibhu (FZJ)
	09:45	coffee break	
HT.02	10:00	Electrolyte Materials for SOFC / SOE	Maxim Ananyev (U Bham)
	11:15	break	
HT.03	11:30	Air Electrode and Contact Layer Materials for SOFC / SOE	Maxim Ananyev (U Bham)
	13:00	lunch	
P.07	16:00	Characterisation Methods for Fuel Cell, Electrolyser and Battery Materials	Shangfeng Du (U Bham)
	17:15	coffee break	
P.08	17:30	Industry presentation: Catalysis, CO ₂ valorisation & Hydrogen Industry	John Bøgild Hansen (ex-Topsoe) and Hans Kungl (FZJ)
	18:45	break	
St.02	19:00	Student Q&A session with John Bøgild Hansen (ex-Topsoe)	all lecturers & students
	20:00	dinner	
St.03	21:00	Students' Introductions II	n.n.

Wednesday 17/09/2025

HT.04	08:30	Fuel Electrode Materials for SOFC / SOE	Maxim Ananyev (U Bham)
	09:45	coffee break	
HT.05	10:00	Cell and Stack Designs for SOFC / SOE	Vaibhav Vibhu (FZJ)
	11:15	break	
HT.06	11:30	Manufacturing of SOFC / SOEC	Vaibhav Vibhu (FZJ)
	13:00	lunch	
	14:00	excursion	
	21:00	dinner	

Thursday 18/09/2025

P.09	08:30	Atomistic Modelling in fuel cell, electrolyser and battery research	Arghya Bhowmik (DTU)
	09:45	coffee break	
HT.07	10:00	System Technology for SOFC and SOE	Vaibhav Vibhu (FZJ)
	11:15	break	
HT.08	11:30	Exercise on Materials / Design	Vaibhav Vibhu (FZJ)
	13:00	lunch	
HT.09	16:00	Diagnostics and Lifetime	Anke Hagen (DTU)
	17:15	coffee break	
HT.10	17:30	Exercise on Diagnostics, Lifetime & System Technology	Anke Hagen (DTU)
	18:45	break	
St.04 / P.10	19:00	Student project time (coaching) /alternative/ Beyond hydrogen: e-fuels and chemicals	all lecturers & students / Robert Steinberger-Wilckens (U Bham) & John Bøgild Hansen (ex-Topsoe) & Sune Ebbesen (Topsoe)
	20:00	dinner	

Friday 19/09/2025

HT.11	08:30	New Trends in SOFC / SOEC	Anke Hagen (DTU)
	09:45	coffee break	
P.11	10:00	industry presentation Topsoe (t.b.c.)	Sune Ebbesen (Topsoe)
	11:15	break	
P.12	11:30	industry presentation t.b.c.	t.b.c.
	13:00	lunch	
St.05	16:00	Optional ECTS exams	
	16:45	coffee break	
St.06	17:00	Students' Project Presentations	Jens Oluf Jensen (DTU) & Robert Steinberger-Wilckens (U Bham)
P.13	19:00	Farewell session	Robert Steinberger-Wilckens (U Bham)
	20:30	farewell dinner	