

JESS 2016 - Programme WEEK 2

Module 1	Joint lectures				
Module 2	Fuel Cell Vehicles		Modelling Master Class		Fuel Cell & Hydrogen Business Development
Module 3					
Sunday	18 Sep 2016	Arrival			
Monday	19 Sep 2016				
08:00	08:30	Registration			
08:30	09:00	Welcome and General Introduction	Robert Steinberger-Wickens (U Bham)		
09:00	09:45	Sustainable and Renewable Energy Future	Robert Steinberger-Wickens (U Bham)		
09:45	10:00	coffee break			coffee break
10:00	11:15	Introduction to Fuel Cell Vehicles & Markets	Ferdinand Panik (U Esslingen)		
11:15	11:30	break			break
11:30	12:45	Electromobility: Business Cases & Services	Robert Steinberger-Wickens (U Bham)		
13:00	14:00	lunch			
		Fuel Cell Vehicles	Modelling Master Class		Fuel Cell & Hydrogen Business Development
16:00	17:30	Status of FC passenger cars & buses	Ferdinand Panik (U Esslingen)	Basics of FC Modelling and Mathematical Tools pt. 1	Alessio Alexiadi (U Bham)
17:30	18:00	coffee break		coffee break	
18:00	19:30	Designing and building hydrogen fuel cell vehicles	Thomas von Unwerth (U Chemnitz)	Basics of FC Modelling and Mathematical Tools pt. 2	Alessio Alexiadi (U Bham)
19:30	19:45			Introduction to the Students' Project	Robert Steinberger-Wickens (U Bham)
19:45	21:15	welcome reception / dinner			
21:15	22:00		Students' Presentations I	students	
Tuesday	20 Sep 2016				
		Fuel Cell Vehicles	Modelling Master Class		Fuel Cell & Hydrogen Business Development
08:30	09:45	Drive Train Components (1)	Thomas von Unwerth (U Chemnitz)	Introduction to MATLAB	Alessio Alexiadi (U Bham)
09:45	10:00	coffee break		coffee break	
10:00	11:15	Lightweight structures for overall vehicle efficiency	Robert Steinberger-Wickens (U Bham)	CFD Modelling	Murat Peksen (FZJ)
11:15	11:30	break		break	
11:30	12:45	Vehicle Fuel Cells & Fuel Cell Systems	Ferdinand Panik (U Esslingen)	Thermomechanical modelling	Murat Peksen (FZJ)
13:00	14:00	lunch			
16:00	17:15	Exercise 1	Thomas von Unwerth (U Chemnitz)	From 0d to 3d modelling	Tsang-I Tsai (U Bham)
17:15	17:30	coffee break		coffee break	
17:30	18:15			Introduction to Fuel Cell Business Futures	James Wilkie (U Bham)
18:15	18:30	break		break	
18:30	19:45		Students' Presentations II	students	
20:00	21:00	dinner			
Wednesday	21 Sep 2016				
		Fuel Cell Vehicles	Modelling Master Class		Fuel Cell & Hydrogen Business Development
08:30	09:45	Hybrid vehicle drive trains	Robert Steinberger-Wickens (U Bham)	Thermodynamical and Kinetics Modelling	Tsang-I Tsai (U Bham)
09:45	10:00	coffee break		coffee break	
10:00	11:15	Vehicle Batteries	Robert Steinberger-Wickens (U Bham)	Multiphysics modelling	Murat Peksen (FZJ)
11:15	11:30	break		break	
11:30	12:45	Exercise 2	Thomas von Unwerth (U Chemnitz)	Student project 1	Student
13:00	14:00	lunch			
15:00	20:45		excursion		
21:00	22:00	dinner			
Thursday	22 Sep 2016				
		Fuel Cell Vehicles	Modelling Master Class		Fuel Cell & Hydrogen Business Development
08:30	09:45			Electromobility: System Modelling	Robert Steinberger-Wickens (U Bham)
09:45	10:00	coffee break		coffee break	
10:00	11:15	Drive Train Components (2)	Thomas von Unwerth (U Chemnitz)	Exercise / Discussion	Murat Peksen (FZJ)
11:15	11:30	break		break	
11:30	12:45	Drive Train Components (3)	Thomas von Unwerth (U Chemnitz)	Student project 2	Student
13:00	14:00	lunch			
16:00	17:00	FCV System Analysis WTW, TCO, LCA	Ferdinand Panik (U Esslingen)	Exercise / Discussion 2	Tsang-I Tsai (U Bham)
17:00	17:15	coffee break		coffee break	
17:15	18:30	Exercise 3	Ferdinand Panik (U Esslingen)	Student project 3	Student
18:30	18:45	break		break	
18:45	19:45		Student project time	students	
20:00	21:00	dinner			
Friday	23 Sep 2016				
		Fuel Cell Vehicles	Modelling Master Class		Fuel Cell & Hydrogen Business Development
08:30	09:45	Exercise 4	Ferdinand Panik (U Esslingen)	Student project 4	Student
09:45	10:00	coffee break		coffee break	
10:00	11:15	Outlook & Scenarios	Ferdinand Panik (U Esslingen)	Exercise / Discussion 3	Alessio Alexiadi (U Bham)
11:15	11:30	break		break	
11:30	12:45		Student project time	students	
13:00	14:00	lunch			
16:00	17:00			Electromobility: The Energy & Environmental Perspective	Robert Steinberger-Wickens (U Bham)
17:00	17:15	coffee break		coffee break	
17:15	18:45		Students' projects presentations	Silash Ruparell	
18:45	19:00	break		break	
19:00	19:30		Farewell	Robert Steinberger-Wickens (U Bham)	
20:30	open	Gala dinner			