



## Schedule

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# THE MECHANICS OF HEAVY – DUTY TRUCK SYSTEMS

## Monday 23<sup>rd</sup> April

Time	Event
08:30 – 08:55	<b>Registration</b> in the Main Foyer, Cambridge University Engineering Department
09:00 – 09:55	Objectives and Scope of the Course, Lecture Room 6 Ervin
09:55 – 10:10	<b>Break</b>
10:10 – 11:10	Basic Properties of the Four – Wheeled Vehicle Winkler
11:10 – 11:25	<b>Break</b>
11:25 – 12:15	Basic Properties Continued Winkler
12:15 – 13:30	<b>Lunch (Tyre Testing Rig Demonstration)</b>
13:30 – 14:25	Mechanics of the Pneumatic Tyre Ervin
14:25– 14:40	<b>Break</b>
14:40 – 15:30	Mechanics of the Pneumatic Tyre, Continued Ervin
15:30 – 15:45	<b>Break</b>
15:45 – 16:35	Steering Systems: Geometry, Mechanical & Kinematic Properties Winkler

## Tuesday 24<sup>th</sup> April

Time	Event
08:45 – 09:35	Heavy Truck Suspensions: Mechanics & Kinematics Winkler
09:35 – 09:50	<b>Break</b>
09:50 – 10:40	Heavy Truck Suspensions, Continued Winkler
10:40 – 10:55	<b>Break</b>
10:55 – 11:45	Brakes and Brake-Actuation Systems Radlinski
11:45 – 13:00	<b>Lunch (Damper Rig Demonstration)</b>
13:00 – 13:50	Brakes and Brake-Actuation Systems Radlinski
13:50 – 14:10	<b>Break</b>
14:10 – 14:50	The Offtracking Phenomenon at Very Low Speeds Ervin
14:50 – 15:05	<b>Break</b>
15:05 – 15:55	Directional Response: Linear analyses Winkler
15:55 – 16:10	<b>Break</b>
16:10 – 17:00	Directional Response: Linear, Continued Winkler



## Schedule

### Wednesday 25<sup>th</sup> April

TIME	EVENT	
08:45 – 09:35	Directional Response: Nonlinear analyses	Ervin
09:35 – 09:50	<b>Break</b>	
09:50 – 10:40	Directional Response: Nonlinear, Continued	Ervin
10:40 – 10:55	<b>Break</b>	
10:55 – 11:45	Braking Capabilities of Heavy Trucks	Radlinski
11:45 – 13:00	<b>Lunch (Driving Simulator Demonstration)</b>	
13:00 – 13:50	Braking Capabilities Continued	Radlinski
13:50 – 14:05	<b>Break</b>	
14:05 – 14:50	Computer Analysis Methods	Winkler
14:50 – 15:10	<b>Break</b>	
15:10 – 17:00	TRUCKSIM: Demonstration & Lab	Winkler CVDC

### **Truck Gala Dinner:** Dress code is jacket and tie

19:00 – 19:30	Pre-Dinner Drinks Reception at Old Hall Queens' College
19:30 – 21:00	Four Course Meal
21:00 – 21:30	Talk by Dick Denby, Denby Transport Ltd.

### Thursday 26<sup>th</sup> April

TIME	EVENT	
08:30 – 09:20	Rollover - Including the Influence of Sloshing & Shifting Loads	Ervin
09:20 – 09:35	<b>Break</b>	
09:35 – 10:25	Rollover Processes Continued	Ervin
10:25 – 10:40	<b>Break</b>	
10:40 – 11:30	The Ride Behaviour of Heavy – Duty Trucks	Winkler
11:30 – 11:45	<b>Break</b>	
11:45 – 12:35	The Ride Behaviour Continued	Ervin
12:35 – 13:15	<b>Lunch</b>	
13:15 – 14:00	Vehicle Instrumentation and Testing	Cebon
14:05 – 14:50	Vehicle Instrumentation and Testing	Roebuck
15:05 – 15:35	Bus to Test Track	
15:35 – 16:30	Demonstration of CVDC Experimental Vehicles	Cebon CVDC
16:30 – 17:00	Bus to Cambridge	