

Day 1 (21 June)	<table><tr><th>Start time</th><th>End time</th><th></th></tr><tr><td>8.30am</td><td>9.20am</td><td>Registration</td></tr><tr><td>9.20am</td><td>9.30am</td><td>Welcome/Housekeeping</td></tr><tr><td>9.30am</td><td>10.30am</td><td>Keynote Speaker</td></tr><tr><td>10.30am</td><td>10.50am</td><td>Break</td></tr><tr><td>10.50am</td><td>11.10am</td><td rowspan="6">Parallel sessions</td></tr><tr><td>11.10am</td><td>11.30am</td></tr><tr><td>11.30am</td><td>11.50am</td></tr><tr><td>11.50am</td><td>12.10am</td></tr><tr><td>12.10apm</td><td>12.30pm</td></tr><tr><td>12.30pm</td><td>1.30pm</td></tr><tr><td>1.30pm</td><td>2.30pm</td><td>Keynote Speaker</td></tr><tr><td>2.40pm</td><td>3pm</td><td rowspan="3">Parallel sessions</td></tr><tr><td>3pm</td><td>3.20pm</td></tr><tr><td>3.20pm</td><td>3.40pm</td></tr><tr><td>3.40pm</td><td>4pm</td><td>Break</td></tr><tr><td>4pm</td><td>4.20pm</td><td rowspan="3">Parallel sessions</td></tr><tr><td>4.20pm</td><td>4.40pm</td></tr><tr><td>4.40pm</td><td>5pm</td></tr></table>	Start time	End time		8.30am	9.20am	Registration	9.20am	9.30am	Welcome/Housekeeping	9.30am	10.30am	Keynote Speaker	10.30am	10.50am	Break	10.50am	11.10am	Parallel sessions	11.10am	11.30am	11.30am	11.50am	11.50am	12.10am	12.10apm	12.30pm	12.30pm	1.30pm	1.30pm	2.30pm	Keynote Speaker	2.40pm	3pm	Parallel sessions	3pm	3.20pm	3.20pm	3.40pm	3.40pm	4pm	Break	4pm	4.20pm	Parallel sessions	4.20pm	4.40pm	4.40pm	5pm	<table><tr><td colspan="2">Registration Welcome/Housekeeping Keynote: Prof. Phil Blythe, Chair: TBC Charging Station/Charging components, Chair: TBC</td></tr><tr><td>10</td><td>Cyber Attack Detection for Integrated Onboard Electric Vehicle Chargers subject to Stochastic Charging Coordination</td></tr><tr><td>32</td><td>Stochastic Modeling of Electric Vehicle Charging Behavior</td></tr><tr><td>38</td><td>A conceptual representation of real-time and long-term decision-making in the roll-out and exploitation of public EV charging infrastructure in neighbourhoods</td></tr><tr><td>46</td><td>POSSIBILITY OF REDUCING THE EFFECTS OF HARMONIC DISTORTION IN FAST CHARGING TECHNOLOGIES FOR ELECTRIC VEHICLES</td></tr><tr><td>73</td><td>12 Pulse High power Active Rectifier for Electric Vehicle Charging</td></tr><tr><td colspan="2">Lunch Keynote: Prof. Cristina Corchero, Chair: TBC Lithium-ion battery, Chair: TBC</td></tr><tr><td>13</td><td>Degradation Abatement in Hybrid Electric Vehicles using Data-Driven Technique</td></tr><tr><td>20</td><td>STATE OF POWER ESTIMATION OF A LITHIUM-ION BATTERY FOR A FORMULA STUDENT VEHICLE</td></tr><tr><td>50</td><td>Addressing Fire &amp; Thermal Runaway Propagation Challenges in Electric Vehicles through Materials Design</td></tr><tr><td colspan="2">Lithium-ion battery, Chair: TBC</td></tr><tr><td>68</td><td>Mechanical characterization and modelling of lithium-ion batteries</td></tr><tr><td>92</td><td>Exploring the Relationship between Temperature Gradients and Unbalanced Aging in Parallel-Connected Cells of EV Battery Packs</td></tr><tr><td>71</td><td>ANALYSIS OF ELECTRIC VEHICLES BATTERY AGEING ASSOCIATED TO SMART CHARGING CONTROLS</td></tr></table>	Registration Welcome/Housekeeping Keynote: Prof. Phil Blythe, Chair: TBC Charging Station/Charging components, Chair: TBC		10	Cyber Attack Detection for Integrated Onboard Electric Vehicle Chargers subject to Stochastic Charging Coordination	32	Stochastic Modeling of Electric Vehicle Charging Behavior	38	A conceptual representation of real-time and long-term decision-making in the roll-out and exploitation of public EV charging infrastructure in neighbourhoods	46	POSSIBILITY OF REDUCING THE EFFECTS OF HARMONIC DISTORTION IN FAST CHARGING TECHNOLOGIES FOR ELECTRIC VEHICLES	73	12 Pulse High power Active Rectifier for Electric Vehicle Charging	Lunch Keynote: Prof. Cristina Corchero, Chair: TBC Lithium-ion battery, Chair: TBC		13	Degradation Abatement in Hybrid Electric Vehicles using Data-Driven Technique	20	STATE OF POWER ESTIMATION OF A LITHIUM-ION BATTERY FOR A FORMULA STUDENT VEHICLE	50	Addressing Fire & Thermal Runaway Propagation Challenges in Electric Vehicles through Materials Design	Lithium-ion battery, Chair: TBC		68	Mechanical characterization and modelling of lithium-ion batteries	92	Exploring the Relationship between Temperature Gradients and Unbalanced Aging in Parallel-Connected Cells of EV Battery Packs	71	ANALYSIS OF ELECTRIC VEHICLES BATTERY AGEING ASSOCIATED TO SMART CHARGING CONTROLS	<table><tr><td colspan="2">Registration Welcome/Housekeeping Keynote: Prof. Phil Blythe, Chair: TBC Policy, Economics and Social Acceptance of EVs-Regional/Country update on EVs - 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60	PROFITABILITY ANALYSIS FOR A SUSTAINABLE BUSINESS MODEL BASED ON SHARED E-MOPEDS IN TRANSITIONING ECONOMIES: A USE CASE BASED ON ACCRA																																																																																																																																			
19	HOW CAN SUSTAINABLE BUSINESS MODELS AND INNOVATIVE VALUE CHAINS ACCELERATE THE TRANSFORMATION OF ELECTRIC VEHICLES?																																																																																																																																			
Social acceptance of EV, Chair: TBC																																																																																																																																				
21	ATTRACTIVENESS AND BUSINESS MODEL POTENTIAL OF THE SPOT MARKET OPTIMIZED CHARGING OF ELECTRIC VEHICLES																																																																																																																																			
63	Social Acceptance and Sustainability Assessment of Light Electric Vehicles in Ghana																																																																																																																																			
Registration Welcome/Housekeeping Keynote: Prof. Andrew Cruden, Chair: TBC Smart charging, Chair: TBC																																																																																																																																				
40	Controlled inductive charging of electric cars has the potential to increase the flexibility and stability of the energy system in Germany																																																																																																																																			
45	Electric vehicle charging flexibility from representative mobility data: The example of two datasets for passenger and commercial transport in Germany																																																																																																																																			
57	Cloud-based Electric Vehicle Routing Service for Urban Charging Hubs with Multiple Aggregators																																																																																																																																			
59	Unlocking inter-day Flexibility in Electric Vehicle Charging to Support Future Grids' High Renewable Integration																																																																																																																																			
67	AN ON-DEMAND VEHICLE-ASSISTED CHARGING MECHANISM FOR DRONES																																																																																																																																			
Lunch Keynote: Prof. Iryna Zenyuk, Chair: TBC Smart charging, Chair: TBC																																																																																																																																				
70	A rule-based algorithm to reduce the operational cost of electric vehicle charging stations integrated with photovoltaics and battery systems																																																																																																																																			
80	Examining EV drivers' willingness to share personal information in the context of smart charging: Results of a five-month EV field trail																																																																																																																																			
83	Disaggregation of Fast Charging Stations for Energy Management System Using a Single Point Sensing																																																																																																																																			
Smart charging/V2G, Chair: TBC																																																																																																																																				
87	Modelling the intensity of Electric Vehicle arrivals at charging points																																																																																																																																			
31	POWER ELECTRONICS CONVERTERS FOR AN ELECTRIC CHARGING STATION: DESCRIPTION AND EXPERIMENTAL EVALUATION																																																																																																																																			
Registration Welcome/Housekeeping Keynote: Prof. Andrew Cruden, Chair: TBC Advanced Electric Vehicle Technologies and Components, Chair: TBC																																																																																																																																				
AS3	Modelling-based approach to design a PID controller in electric powertrains																																																																																																																																			
33	Analysis of Axial-Field Flux-Reversal Permanent-Magnet Magnetic-Differential Motors Using Different Iron Materials																																																																																																																																			
55	Multiple-Frequency Simultaneous Wireless Power Transmission for In-Vehicle Applications																																																																																																																																			
AS4	Feasibility study on Design and Implementation of Electric Motor																																																																																																																																			
47	Feedback Linearization Controller Design for Solid Oxide Fuel Cells																																																																																																																																			
Lunch Keynote: Prof. Iryna Zenyuk, Chair: TBC Vehicle design/Efficiency and Performance, Chair: TBC																																																																																																																																				
88	Real-time comprehensive condition monitoring technique for SiC MOSFET-based inverters in EV applications																																																																																																																																			
AS2	Gear Design of Electric Vehicle Powertrain																																																																																																																																			