Day 1 (21 June)

Start time	End time						
8.30am	9.20am	Registration	Registration		Registration		Registration
9.20am	9.30am	Welcome/Housekeeping	Welcome/Housekeeping		Welcome/Housekeeping		Welcome/Housekeeping
9.30am	10.30am	Keynote Speaker	Keynote: **Prof. Phil Blythe**, Chair: Prof. Emma Kendrick, Room: Lindsay Stewart **Charging Station/Charging components,** Chair: Prof. Anna Stefanopoulou, Room: 1/06		Keynote: **Prof. Phil Blythe**, Chair: Prof. Emma Kendrick, Room: Lindsay Stewart **Vehicle design/Energy efficiency&Electric motor**, Chair: Prof. Emma Kendrick, Room: 3/03		Keynote: **Prof. Phil Blythe**, Chair: Prof. Emma Kendrick, Room: Lindsay Stewart **Vehicle design/Efficiency and Performance**, Chair: Prof. Haiping Du, Room: 3/11
10.30am	10.50am	Break					
10.50am	11.10am	Parallel sessions	10	Cyber Attack Detection for Integrated Onboard Electric Vehicle Chargers subject to Stochastic Charging Coordination Ali Arsalan, Laxman Timilsina, Grace Muriithi, Behnaz Papari, Christopher S. Edrington	4	Integrated cooling/HVAC system design and control strategy for reconfigurable light electric vehicle Daniele Chiappini, Laura Tribioli, Gino Bella, Pere Canals	95	Adaptive Energy Management Strategy Optimization for Extended Range Electric Vehicles Yong Chen, Jinwang Pan, Shangru Wu, Changyin Wei
11.10am	11.30am		32	Stochastic Modeling of Electric Vehicle Charging Behavior K. T. Chau, Yao Tang, Tengbo Yang	7	Maximization of energy recovery under braking through an appropriate regenerative braking logic which takes into account the locking limit of the wheels Giulia Sandrini, Marco Gadola, Daniel Chindamo	30	Multi-objective Optimisation of Gear Ratios in Two Speed Dual Clutch Transmissions for Electric Vehicles Yiyi Liang, Haiping Du
11.30am	11.50am		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 Mylene van der Koogh, Emile Chappin, Renee Heller, Zofia Lukszo	85	Calculation and Analysis of Heat Load of Automotive Air Conditioning Xuefeng lin, Weiwei Zhao, Tongtong Zhang, Song Yang, Yulong Ding	44	Thermal-mechanical energy harvesting for EV through liquid-solid nanotriboelectrification Weiwei Zhao, Yaroslav Grosu, Song Yang, Tongtong Zhang, Yongliang Li, Yulong Ding
11.50am	12.10am		46	Possibility of reducing the effects of harmonic distrortion in fast charging technologies for electric vehicles Emmanuel Mudaheranwa, Hassan Sonder, Liana Cipcigan, Carlos Ugalde Loo	61	Evaluation of the environmental benefit of an eco-design strategy on the life cycle assessment of a permanent magnet high speed electric motor Antonella Accardo, Filippo Giolito, Ezio Spessa	48	Impact of ultrasonic and laser multi-welds on electro-thermal behaviours of battery tab interconnects Indranil Manna, Nikhil Kumar, Abhishek Das
12.10am	12.30pm		73	12 Pulse High power Active Rectifier for Electric Vehicle Charging Mohammad Taha, Ali M. A. Almaktoof	62	Trends in High Voltage Inverter Systems Jeffrey Loeliger, Lukas Gorel	93	Thermal energy storage to increase the range of electric vehicles under cold ambient conditions L. Bartolucci, E. Cennamo, S. Cordiner, F. Grattarola, V. Mulone, S. Pasquale, F. Pasqualini, G. Giraudo, M. Aimo Boot
12.30pm	1.30pm	Lunch	Lunch		Lunch		Lunch
1.30pm	2.30pm	Keynote Speaker	Keynote: **Prof. Cristina Corchero**, Chair: Prof. Andy Cruden, Room: Lindsay Stewart **Lithium-ion battery,** Chair: Prof. Liana Cipcigan, Room: 1/06		Keynote: **Prof. Cristina Corchero**, Chair: Prof. Andy Cruden, Room: Lindsay Stewart **Policy, Economics and Social Acceptance of EVs,** Chair: Dr. Vahid Vahidinasab, Room: 3/03		Keynote: **Prof. Cristina Corchero**, Chair: Prof. Andy Cruden, Room: Lindsay Stewart **Charging Station/Energy sources/P2G**, Chair: Prof. Kasheem Muttaqi, Room: 3/11
2.30pm	2.50pm	Break					
2.50pm	3.10pm	Parallel sessions	13	Degradation Abatement in Hybrid Electric Vehicles using Data-Driven Technique L. Timilsina, B. R. Badr, A. Arsalan, P. H. Hoang, G. Ozkan, B. Papari, C. S. Edrington	65	Strategic integration of electric vehicles: an Australian analysis Scott Dwyer, Ben James, Charlie Hargroves	36	Electrical Architecture for ultrafast charging station David Zambrano-Prada, Alexandra Blanch, José Antonio Barrado-Rodrigo, Luis Vázquez-Seisdedos, Oswaldo Lopez-Santos, Abdelali El Aroudi, Salamero Luis Martínez
3.10pm	3.30pm		20	State of power estimation of a lithium-in battery for a formula student vehicle Adriano Schommer, Denise Morrey, Gordana Collier	90	Regional Electric Vehicle Energy Consumption and Carbon Emissions in Great Britain Yazan Al-Wreikat, Jose Sodre	78	Integration of Drivers' Routines into Lifecycle Assessment of Electric Vehicles Apostolos Vavouris, Lina Stankovic, Vladimir Stankovic
3.30pm	3.50pm		71	Analysis of electric vehicles battery ageing associated to smart charging controls J. Nájera, J. R. Arribas, R. M. de Castro, H. Mendonca, M. Blanco, G. Navarro, M. Lafoz	16	Commercial fleet vehicle additions and replacements and potential market penetration for electric vehicles Konstadinos Goulias, Hui Shi	94	Investigation of A Cost-Effective Electric Vehicle Charging Station Assisted by A Photovoltaic Solar Energy System Abdullah Dik, Siddig Omer, Rabah Boukhanouf
3.50pm	4.10pm		68	Mechanical characterization and modelling of lithium-ion batteries Davide Clerici, Aurelio Somà, Francesca Pistorio, Francesco Mocera, Salvatore Martelli	15	An autoregressive spatial stochastic frontier analysis to quantify the sales efficiency of the electric vehicle market: An application to 88 demonstration cities in China Andrea Pellegrini, Yao Xusheng, John Rose		
4.10pm	4.30pm		92	Exploring the Relationship between Temperature Gradients and Unbalanced Aging in Parallel-Connected Cells of EV Battery Packs Haosong He, Xiangjie Chen				

Day 2 (22 June)

Start time	End time						
8.30am	9.20am	Registration	Registration		Registration		Registration
9.20am	9.30am	Welcome/Housekeeping	Welcome/Housekeeping		Welcome/Housekeeping		Welcome/Housekeeping
9.30am	10.30am	Keynote Speaker	Keynote: **Prof. Anna Stephanopoulou**, Chair: Prof. Miadreza Shafiekhah, Room: Lindsay Stewart **Battery Range/Efficiency/Management**, Chair: Prof. Emma Kendrick, Room: 1/06		Keynote: **Prof. Anna Stephanopoulou**, Chair: Prof. Miadreza Shafiekhah, Room: Lindsay Stewart **Vehicle/Power-to-Grid (V2G/P2G),** Chair: Dr Patrick Jochem, Room: 3/03		Keynote: **Prof. Anna Stephanopoulou**, Chair: Prof. Miadreza Shafiekhah, Room: Lindsay Stewart **Policy, Economics and Social Acceptance of EVs,** Chair: Prof. Miadreza Shafiekhah, Room: 3/11
10.30am	10.50am	Break					
10.50am	11.10am	Parallel sessions	9	Thermodynamics, heat transfer, and renewable charging of electric vehicles Efstathios Michaelides	22	Systematic Review on Phase-Shift Optimization Strategies of Dual Active Bridge based DC-DC Converter Osama Majeed Butt, Rana Hasnat Ahmed, Muhammad Husnain Ashfaq	8	Long-haul Electric Truck Routing with Coordinated Driver Schedule and Charging Activities: When and Where to Charge Xi Cheng, Jane Lin
11.10am	11.30am		27	A comparative study of novel designs of liquid-cooled battery thermal management systems Sandeep Joshi, Pranjali Tete Mahendra Gupta	28	Diary-Based Evaluation of Bidirectional Electric Vehicle Charging In a Long-Term Study: Method and Insights Bettina Kaempfe, Corinna Braun	18	Establishment of the national centre for e-vehicle & sustainable technology (EVST) Oliver Shaw, Ian Smith, Mark Busfield
11.30am	11.50am		81	Optimisation of Electric Vehicle Battery Size Niall Jones, Simon Nazarenus, Konstantinos Stamatis , Andreas Zachariah, Liana Cipcigan	41	EVs and their charging – in or out? User acceptance of bidirectional charging in Germany Vera Fahrner, Moritz Bergfeld, Christine Eisenmann	96	Optimizing Infrastructure for Large-Scale Electrification of Trucks: A Fixed Route Approach Amir Davatgari , Taner Cokyasar, Anirudh Subramanyam, Jeffrey Larson, Abolfazl (Kouros) Mohammadian
11.50am	12.10am		43	Electric Buses Battery Sizing Optimisation using an Agent-Based Modelling Approach Simon Nazarenus, Konstantinos Stamatis, Liana Cipcigan	72	Exploring the Feasibility of Battery Electric and Fuel Cell Electric Vehicles as Peaker Plant Substitutes in Low Wind and Irradiation Conditions Nies Reininghaus , Tobias Tiedemann, Michael Kröner, Martin Vehse	19	How can sustainable business models and innovative value chains accelerate the transformation of electric vehicles? Rudolf Schnee, Nathalie Kroichvili, Daniela Chrenko, Reiner Kriesten
12.10pm	12.30pm		AS1	Parametric study on lead-acid battery in an electric powertrain Daksha Moodbidri Renuka, Axit Ghanshyamnhai Thakar, Gopika Namboothiri, Ahmed Rezk, Jose Sodre	23	Combining urban fleet vehicle operation with reducing energy wastage in light rail systems Fiona McBride, Erica Ballantyne, David Stone	21	Attractiveness and business model potential of the spot market optimized charging of electric vehicles Valerie Ziemsky, Florian Biedenbach
12.30pm	1.30pm	Lunch	Lunch		Lunch		Lunch
1.30pm	2.30pm	Keynote Speaker	Keynote: **Prof. Kashem Muttaqi**, Chair: Prof. Liana Cipcigan, Room: Lindsay Stewart **Incentive and promotion of EVs,** Chair: Prof. Miadreza Shafiekhah, Room: 1/06		Keynote: **Prof. Kashem Muttaqi**, Chair: Prof. Liana Cipcigan, Room: Lindsay Stewart **Grid,** Chair: Prof. Phil Blythe , Room: 3/03		Keynote: **Prof. Kashem Muttaqi**, Chair: Prof. Liana Cipcigan, Room: Lindsay Stewart **Sustainable Electric Vehicle Design and Operation,** Chair: Dr. Vahid Vahidinasab, Room: 3/11
2.30pm	2.50pm	Break					
2.50pm	3.10pm	Parallel sessions	5	Carrot or stick? How policy type influences consumer intention to purchase electric vehicles Shaherah Jordan	35	Design of the Community-to-Vehicle-to-Community (C2V2C) for enhanced electro-mobility in photovoltaic energy-sharing building communities Pei Huang	6	Application of solid oxide fuel cells on hybrid electric vehicles operating in fleet Giulia Sandrini, Marco Gadola, Daniel Chindamo
3.10pm	3.30pm		39	The ongoing electrification in public fleet: lessons learned from the public safety electrification experience in Brazil Marcio Co, Flavia Consoni	64	The Role of EV Parking Lots for Supporting the Distribution System Operation Considering EV Uncertainties Seyed Mahoor Ebrahimi, Miadreza Shafiekhah, Hannu Laaksonen	14	Investigating the Impact of Electricity Rationing on Rural EV Charging Thomas McKinney, Erica Ballantyne, David Stone
3.30pm	3.50pm		77	An overview on charging tariff schemes and incentives: the eCharge4Drivers project Evangelos Karfopoulos, Jaume Roca, Jaume Mata, Angel Lopez, Villy Portouli, Angelos Amditis	82	Indicators for providing carbon impact feedback for EV users Nana Kofi Twum-Duah, Muhammad Salman Shahid, Lucas Hajiro Neves Mosquin, Frédéric Wurtz, Benoit Delinchant	24	Maximizing wireless power transmission for electric vehicles with high-intensity laser power beaming and optical orthogonal frequency division multiplexing Jeongsook Eom, Gunzung Kim, Yongwan Park
6.30pm	7pm	Dinner	Arrival/Drinks Reception & entertainment in the Bar and Wilfred Suite, Craiglockhart				
7pm	7.15pm		Guests to be seated in the Chapel				
7.15pm	9.30pm		Food service in the Chapel				
9.30pm			Finish				

Day 3 (23 June)

Start time	End time						
8.30am	9.20am	Registration	Registration		Registration		Registration
9.20am	9.30am	Welcome/Housekeeping	Welcome/Housekeeping		Welcome/Housekeeping		Welcome/Housekeeping
9.30am	10.30am	Keynote Speaker	Keynote: **Prof. Andrew Cruden**, Chair: Prof. Haiping Du, Room: Lindsay Stewart **Battery/Battery management and intermediate storage**, Chair: Professor Zuansi Cai, Room: 1/06		Keynote: **Prof. Andrew Cruden**, Chair: Prof. Haiping Du, Room: Lindsay Stewart **Smart charging,** Chair: Dr Patrick Jochem, Room: 3/03		Keynote: **Prof. Andrew Cruden**, Chair: Prof. Haiping Du, Room: Lindsay Stewart **Advanced Electric Vehicle Technologies and Components,** Chair: Dr Ahmed Rezk, Room: 3/11
10.30am	10.50am	Break					
10.50am	11.10am	Parallel sessions	17	A circular business model innovation framework for the electric vehicle battery second life Ignat Kulkov, Koteshwar Chirumalla, Frida Antonsson	37	Data-driven multi-objective optimisation for electric vehicle charging infrastructure Farzaneh Farhadi, Roberto Palacin, Phil Blythe	AS3	Modelling-based approach to design a PID controller in electric powertrains Someshwar Chandrakumar, Temple Agodike, Inderbir Singh, Nitish Konathala, Prabhakar Lalit Penmesta, Pritikesh Bandodkar, Ahmed Rezk, Yu Jia, Jose Sodre
11.10am	11.30am		58	Design of Hybrid Energy Storage System for Heavy Electric Vehicle Hanlin Lei, Kang Li, Benjamin Chong, shiyun liu	45	Electric vehicle charging flexibility from representative mobility data: The example of two datasets for passenger and commercial transport in Germany Fabia Miorelli , Hans Christian, Patrick Jochem	33	Analysis of Axial-Field Flux-Reversal Permanent-Magnet Magnetic-Differential Motors Using Different Iron Materials Tengbo Yang, K. T. Chau, Yao Tang, Zhiwei Xue
11.30am	11.50am		74	Energy management strategy to limit battery degradation in fuel cell electric vehicles Christoph Hametner, Alessandro Ferrara	59	Unlocking Inter-day Flexibility in Electric Vehicle Charging to Support Future Grids' High Renewable Integration Siobhan Powell	55	Multiple-Frequency Simultaneous Wireless Power Transmission for In-Vehicle Applications Hongliang Pang, K. T. Chau, Tengbo Yang, Songtao Li
11.50am	12.10am		89	State-of-Charge Estimation of Li-ion Battery Packs Based on Optic Fibre Sensor Measurements Shiyun Liu, Kang Li, Benjamin Chong, Ye Chen	80	Examining EV drivers' willingness to share personal information in the context of smart charging: Results of a five-month EV field trail Susen Döbelt, Madlen Günther, Bettina Kaempfe, Josef F. Krems	AS4	Feasibility study on Design and Implementation of Electric Motor Jowyl Fernandes, Ahmed Rezk, Jose Sodre
12.10pm	12.30pm		34	Novel Loop Heat Pipe System for EV Thermal Management of Batteries: Effects of Ambient Temperatures Marco Bernagozzi, Anastasios Georgoulas, Nicolas Miché, Marco Marengo	40	Controlled inductive charging of electric cars has the potential to increase the flexibility and stability of the energy system in Germany Moritz Bergfeld, Carsten Hoyer-Klick, John Erik Anderson, Christine Eisenmann	47	Feedback Linearization Controller Design for Solid Oxide Fuel Cells Donggil Kim, Jaehoon Kim, Jisoo Kim, Lee Dongik
12.30pm	1.30pm	Lunch	Lunch		Lunch		Lunch
1.30pm	2.30pm	Keynote Speaker	Keynote: **Prof. Iryna Zenyuk**, Chair: Dr Patrick Jochem, Room: Lindsay Stewart **Social acceptance of EVs,** Chair: Prof. Iryna Zenyuk, Room: 1/06		Keynote: **Prof. Iryna Zenyuk**, Chair: Dr Patrick Jochem, Room: Lindsay Stewart **Smart charging/V2G,** Chair: Dr. Vahid Vahidinasab, Room: 3/03		Keynote: **Prof. Iryna Zenyuk**, Chair: Dr Patrick Jochem, Room: Lindsay Stewart **Vehicle design/Efficiency and Performance**, Chair: Dr Ahmed Rezk, Room: 3/11
2.30pm	2.50pm	Break					
2.50pm	3.10pm	Parallel sessions	84	A framework to explore policy to support adoption of electric vehicles in developing nations: A case study of Indonesia Rachmad Hidayat	83	Load Monitoring Based on Monte Carlo Simulation for the Identification of Fast Charging Stations Sami Alshareef	49	Sliding mode control design using pwm modulation method for induction motor speed control Rohullah Rahmatullah, Necibe Fusun Oyman Serteller, Ayca Ak
3.10pm	3.30pm		63	Social Acceptance and Sustainability Assessment of Light Electric Vehicles in Ghana Oskar Bauer, Frederick Adjei, Eric Mensah, Tobias Pflug, Semih Severengiz	87	Modelling the intensity of Electric Vehicle arrivals at charging points Yvenn Amara	88	Real-time comprehensive condition monitoring technique for SiC MOSFET-based inverters in EV applications Javad Naghibi, Kamyar Mehran, Martin Foster
3.30pm	3.50pm						AS2	Gear Design of Electric Vehicle Powertrain Zaid Alkhatib, Stelvio Silvia, Fazle Rabby, Dhananjay Singh, Ahmed Rezk, Jose Sodre