

## ELECTRIFICATION FUNDAMENTALS Masterclass programme

12th November 2019, University of Warwick



### Professor David Greenwood

Professor David Greenwood leads the Advanced Propulsion Systems team at WMG which covers a wide remit of related areas within Energy Storage (Battery Systems); Energy Conversion (Electric Machines; Power Electronics); and Energy Management. He leads WMG's activities as the Advanced Propulsion Centre's Electrical Energy Storage Spoke, and also provides academic leadership for the development of R&D activities within the National Automotive Innovation Centre.

Professor Greenwood is a Board Member at the Low Carbon Vehicle Partnership (LowCVP) and a member of the Automotive Council Technology Group. He is also a member of the EPSRC's Energy Scientific Advisory Committee and the Advanced Propulsion Centre (APC) Advisory Board.

Professor Greenwood joined WMG in 2014 from Ricardo UK Ltd where he was Head of Hybrid and Electric Systems, leading advanced technology projects in passenger cars, defence, motorsport and the clean energy markets. Strategic projects at Ricardo included the preparation of automotive industry technology roadmaps and research priorities for the NAIGT (New Automotive Innovation and Growth Team), TSB and Automotive Council.



### Martin Dowson

Martin Leads the Battery systems team at WMG covering both collaborative research and industrial consultancy work across all sectors of battery application.

Primary interests are in high performance batteries, battery thermal management, cost optimised batteries, mechanical integrity, and battery safety and recycling.

Previously he had over 35 years industrial experience managing both research and delivery teams.

For the past 20 years he has been at the forefront of the electrification revolution in the UK developing some of the first hybrid, plug-in hybrids and EVs. Including work on the Jaguar CX75 supercar and leading the initial propulsion system and vehicle programme definition for the Jaguar iPace EV, World car of the year 2019.

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### Caroline Guest

Caroline has a wealth of experience across many areas of Automotive Engineering from working with Ford Motor Company over a period of 19 years. Her particular areas of expertise were in Final Assembly and Packaging Engineering, working around the world on vehicle launches. She is also experienced in project management, powertrain manufacturing, launch quality assurance and change management. Her focus now is on developing remanufacturing and more efficient use of resources, particularly in the field of automotive electrification. She has been working on collaborative Innovate UK and APC research projects for the past 4 years on electric motors, fuel cells, and high voltage batteries, as well as developing business strategies for SMEs in the sector.



### Dr David Simkin

Dr David Simkin joined WMG after working as a manager within the eMachines team at JLR. Prior to this he has led the development work on eMachines at several eMachine manufacturing companies such as Saitta, YASA Motors and Converteam. He has over 35 years of manufacturing experience of systems for the automotive, healthcare and industrial markets.



### Steve Norgrove

Steve has a career spanning over 40 years in Manufacturing Industry. He started as a Technical Apprentice before graduating to Production and Project Engineering roles in the Defence and Off Highway vehicle sectors. He has also worked in the Aerospace, Steel Processing and Automotive sectors in a range of global corporate and General Management roles.

He is a Chartered Engineer and a Fellow of I.Mech.E