



TWEXpert BIOGRAPHIES

Michael Derby

Technical Director at Element Materials, Connected Technology

Michael Derby is a Technical Director at Element Materials in their Connected Technologies group, supporting manufacturers and colleagues in the test and approval of radio enabled equipment. He has more than 30 years' experience in the industry, with testing and approvals roles, including EMC, Radio performance, and RF Exposure SAR. He also provides training and technical support to the industry through advisory projects and seminar courses. Within Element, Michael is a Certification Body for the USA and Canada; an EU Notified Body for the RED and a UK Approved Body for the RER.

Michael has been with Element since September 2020.

Michael is an active member of the REDCA (RED Compliance Association) and TCB Council; acting as the liaison between the two organisations and author of many technical guidance documents within the industry.

Michael is the technical secretary of the EMC Test Lab Association.

His past experience includes product development, testing and certification for manufacturers and test laboratories. He provides worldwide services to customers and colleagues from his office in the Hampshire area of the UK.



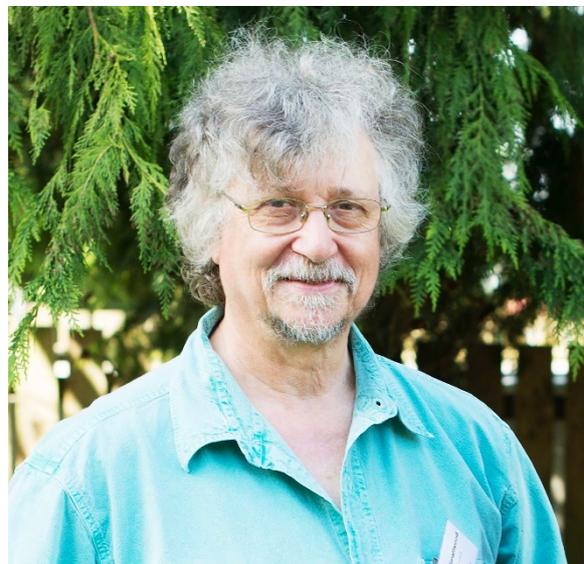
Jeremy Smallwood

Electrostatic Solutions Ltd

Jeremy designed electronic instruments before completing his PhD in electrostatic discharge ignition studies.

In 1998 he formed Electrostatic Solutions Ltd, providing electrostatics consultancy, training and R&D services.

He works with British and IEC standards and was awarded the 2010 ESD Association Industry Pioneer Award and 2017 International Fellow Award at Electrostatics 2017.





Ian MacDiarmid

Visiting Professor in Applied Electromagnetics at University of Liverpool, 35 years in aerospace electromagnetic engineering. The final twelve years as Head of Electromagnetics at BAE Systems

Ian worked at BAE Systems from April 1978, starting as an EMC Test Engineer, then becoming the Company Specialist in EMC in 1980. As the subject broadened to include Low Observability, Installed antenna performance and EW installed systems, Ian became a Company Consultant in Electromagnetics, ultimately becoming Head of Electromagnetics in 2002. In 2007 Ian was appointed as a Company Engineering Fellow. Ian retired from BAE Systems, reluctantly, due to ill-health, in September 2013.

Ian has been actively involved with the IET for many years, including Chairman of three specialist groups over the years and continues to be a member of the TPN, also a regional PRA, Registration Assessor and Fellow Assessor and interviewer and referee for two journals.

Ian has been a Visiting Professor at the University of Liverpool, Department of Electronic Engineering since 2012.





Geraldine Salt

BSI Standards Development Manager: EMC, Energy, Oil, Gas,

Geraldine is a Standards Development Manager at the British Standards Institution (BSI). Part of her role involves managing a number of national committees which are responsible for UK input to ISO/IEC Standards and CEN/CENELEC ENs.

The committees which she manages are mainly in the electrotechnical area and cover subjects including:

- Electromagnetic Compatibility (EMC)
- Safety of household and similar electrical appliances
- Electrotechnical technical policy

Geraldine has previously been Secretary to the international committee responsible for standards on Lighting and the European Committee responsible for standards on Automatic Controls for Household Use.

She is also Committee Manager to the BSI Committee responsible for industrial valves, steam traps, actuators and safety devices against excessive pressure.





James Pawson

EMC Problem Solver, Unit 3 Compliance

Unit 3 Compliance is a West Yorkshire test lab and consultancy specialising in EMC testing, troubleshooting/problem solving, pre-compliance and product design support.

James has 10+ years experience in EMC design, testing, fault finding and problem diagnosis and in running an EMC test laboratory. He finds his wide ranging electronics and product design background invaluable in coming up with innovative solutions to all manner of EMC problems.

His career has spanned several different disciplines including industrial LCD monitor design, SMPS design, microcontroller coding, environmental testing, thermal design and simulation, high speed digital design/test and project management.

Outside of work James is a keen board gamer, cyclist, runner and mountaineer and can often be found on the local hills, occasionally muddy.



Neil Bonter

CE & FCC Compliance Consultant (TCFs), Member of the REDCA

Neil Bonter has been an independent consultant running his own business for the past 12 years. Specialising in the Radio Equipment Directive, EMC and Safety for CE compliance with testing, documentation and assisting customers with their compliance. Many clients now require more extensive support into other world markets and TCFs assists with compliance into many other countries such as North America, Australia and many Asian countries.

For many years the manager of the regulatory and Notified Body department at RFI and a long-standing member of the REDCA and supporter of SRCG. A wealth of experience has been gained from more than 40 years in the electronics industry, commercial control systems, military fire control and domestic sound and vision.





Charlie Blackham

Sulis Consultants Ltd

Charlie Blackham is the founder and Director of Sulis Consultants. He specialises in helping companies meet CE marking and other Product Approvals requirements worldwide from their offices in north-east Hampshire.

Charlie can perform or arrange test plans, testing and certification using his own expertise and a team of compliance partners. Charlie regularly performs the compliance testing and technical reviews, in addition to the compliance consultancy. He is an active member of the REDCA (RED Compliance Association) and a UKAS accredited RED Notified Body Technical Expert.

His past experience includes compliance management for product manufacturers and technical reviews for a certification body and Notified Body for the RED and EMCD.

Charlie is a graduate in Electrical and Electronic Engineering, a Chartered Engineer and member of the IET.



Andy Degraeve

The Limit Line, an associate of Cherry Clough Consultants Ltd

Andy Degraeve (IEEE Member) was born in Ghent, Belgium, on June 6, 1980. He received the M.S. degree in electronics and computer engineering from the KU Leuven, Technology Campus Ostend, Belgium, in 2014. In June 2014 he received a nomination for the best master thesis by the ie-net engineering association. From 2014 till 2018, he was a Research Assistant at the KU Leuven Campus Bruges, Research group ReMI, Reliability in Mechatronics & ICT (now called “M-Group” standing for “Mechatronics Group”). His main research interests included electromagnetic compatibility, immunity and functional safety in life or mission critical situations. In May 2018 he was a Technical Session chair at the joint IEEE EMC and APEMC symposium in Singapore, Singapore. From 2019 till 2020 he was the Technical and Product Manager at Schlegel Electronic Materials, a member of eMei group, in





Belgium, with a focus on shielding, absorbing and thermal management materials. From 2020, he is focussing on EMC education and diagnostics using low-cost test equipment, and became an Associate of Cherry Clough Consultants Ltd to help provide independent expertise in good, cost-effective EMC design, worldwide.

Min Zhang

Mach One Design, an Associate of Cherry Clough Consultants Ltd

Dr. Min Zhang received his PhD within Newcastle University's Electrical & Electronics Engineering department in 2013. His research was in novel power switching schemes to reduce EMI emissions, and his research papers have received many citations.

Since then, he has worked as an EMC specialist on milestone projects with Dyson Technology, UK. With a proven track record designing state-of-the-art electronics and electric machines with minimal EMC issues, Min then established the EMC capability for the Dyson Electric Vehicle project.

Following the closure of that project, Min started Mach One Design and became associated with Cherry Clough Consultants Ltd to provide independent expertise in good, cost-effective EMC design, worldwide.

Min's in-depth knowledge in power electronics, digital electronics, electronic machines and product design is sure to benefit your product's design, helping you win the race against time and cost.

