

Spotlights: the brains behind our BS 7671 books

For this issue's Spotlight, we feature the authors we have worked with in creating the BS 7671 Amendment 3 suite of books. We're proud that we have some of the very best brains behind our books, ensuring that our content has been produced to the highest technical standard possible. Many of our authors are heavily involved in JPEL 64, the joint committee for electrical installations in buildings that manages BS 7671.

See also: our guide to the books that have been updated by Amendment 3.

Mark Coles, Technical Regulations Manager

On-Site Guide

Mark Coles is the Technical Regulations Manager with the IET in the Standards and Compliance department – and might be a familiar face as he has appeared in many videos and TV programmes on behalf of the IET (the most recent being Fake Britain, to discuss the counterfeit IET books).

Mark served his apprenticeship as an electrician with the United Kingdom Atomic Energy Authority. He has worked on many projects including the decommissioning of Windscale Piles 1 & 2, decommissioning of the Advanced Gas Reactor (AGR), Cement Encapsulation Plant, commissioning of THORP (Thermal Oxide Reprocessing Plant) and the Auto-Sampling pneumatic transfer system at Sellafield, Cumbria.

He studied Electrical & Electronic Engineering at London South Bank University, and subsequently worked as Contracts and Project Manager in electrical contracting and then held the post of Operations Engineer with the NICEIC.

Currently, Mark is an appointed UK expert on protection against electric shock to international committee IEC TC 64 MT 9, IEC TC 64 JWG 32 and CENELEC TC 64 WG 9 and is Secretary to JPEL/64D, UK sub-committee dealing with external influences.

Geoff Cronshaw, Chief Electrical Engineer

Guidance Note 7: Special Locations

Geoff has already been featured in Wiring Matters, under the Spotlight article in the Spring issue. He joined the IET in 2001 and was made Chief Electrical Engineer in 2004. Prior to joining the IET Geoff spent over twenty years in electrical consultancy where he was responsible for designing a wide range of electrical installations in both the public and private sector. He is a Chartered engineer and a Fellow of the IET.

Geoff is Secretary of JPEL 64, the National Wiring Regulations Committee, and also Secretary of the National Ships Committee (JPEL/18). He is convenor of an International Maintenance Team responsible for developing world standards and a CENELEC Working Group responsible for developing European standards. He is regular contributor and Technical Editor to Wiring Matters.

Trevor Pickard, Electrical Engineering Consultant

Guidance Note 2: Isolation & Switching; Electrician's Guide to the Building Regulations

Trevor's interest in all things electrical emerged when he was quite young; he recalls always having some piece of electrical equipment in various stages of assembly to see how they operated, be it a battery powered model under construction, an electrical motor, or any number of items he could get his hands on.

Upon leaving school in 1966 he commenced work with an electricity distribution company, Midlands Electricity Board (MEB). After completing a five-year student apprenticeship, he held a series of engineering positions; as an operational engineer working 'at the coal face' then in Design, Safety, and Business Process Improvement and as Production Manager of a large urban based operational division. Further posts included General Manager of the Repair and Restoration department, and General Manager of the Primary Network department (33kV-132kV).

Trevor retired from his position as Contract Delivery Manager of the amalgamated Midlands and East Midlands distribution companies, Central Networks, in 2006. Since then, he has been working as an electrical consultant, providing management and engineering expertise to a wide portfolio of clients in fields such as electricity distribution and transmission, highway electrical systems, generation and rail track tool manufacturers.

It is fair to say that Trevor's interest in electrical engineering has extended beyond the '9-5 job' and that he has taken the opportunity to become actively involved in the writing of standards in the domestic, European and International arena with BSI, CENELEC and IEC. For many years he lectured for the IET on their various short courses and he has recently authored books in the City & Guilds Diploma in Electrical Installations series.

Howard J. Carey MIET LCGI Cert Ed.

Guidance Note 3: Inspection & Testing

Howard started his electrical career as an apprentice with a small electrical engineering company. His years at that company allowed him to become recognised as a time-served and qualified electrician. Howard currently holds a number of roles, including practicing as a consultant, lecturer, teacher, instructor, assessor and educational author. The consultancy relates to preventative maintenance and periodic inspection and testing, which keeps him in touch with the real world of electrical work, updating and enhancing all areas of his professional practice.

Howard lectured for the IET for twelve years, which, fortunately for us, he recalls as "a source of continuous education and personal development through which I increased my knowledge of regulations relating to design, installation, inspection and testing. As one of a small collection of lecturers, I was privileged to be part of a group at the forefront of educational needs and awareness, relating to BS7671."

Howard has also been involved in assessing for 25 years and finds that this is a skill in its own right, whether it is City & Guilds, EAL or industrial assessments for safe working practices, and his experiences from assessing help to progress his teaching methods.

As an author, Howard has recently been involved with City & Guild NVQ level 3 publications. His current educational tasks consist of presenting courses and assessing in tandem with



writing and course development. Good knowledge of the subject matter, precise planning and focussed preparation are his fundamental building blocks to ensure educational objectives are met. His personal aim? His express purpose is that? “I intend to progressively upgrade our methods of presentation to suit the required national standard assessment criteria and achieve learning outcomes.”

John Bradley BSc CEng FIET FCIBSE

Guidance Notes 1-8, Electricians Installation Design Guide

John's career in electrical installations began in 1965 when, at the age of 15, he became an apprentice electrician with national electrical contractors Lee Beesley, in Birmingham. He stayed with that company for seven years, gaining his JIB Electrician's Certificate and rising to become a contracts engineer, working on a range of project types, including industrial, commercial, healthcare and educational. He moved on into the world of consultancy, in which he worked for 21 years, designing and managing large, medium and small electrical installation projects, both in the UK and overseas, and progressing to become an Associate with R W Gregory and Partners. In 1994, John moved to NICEIC as the Inspecting Engineer for the area centred on Dudley in the Midlands. He progressed to become a Senior Engineer with NICEIC, working in the Standards Unit – with duties that included technical authorship and contributing to the development of the IET Wiring Regulations and the related European and International standards, and then to become the Principal Engineer of NICEIC (and subsequently of the Electrical Safety Council), a post which he held for 10 years. John retired from Certsure Plc (owner of the NICEIC and ELECSA brands) in April 2014, and is now both a self-employed consulting engineer and UK Standards Manager for Schneider Electric.

John was awarded his BSc Degree in Electrical Engineering in 1980 after studying for it on a part-time basis at Birmingham Polytechnic. His earlier technical qualifications, also gained on a part-time basis, include the City & Guilds B and C Certificates in Electrical Installation Work, City and Guilds Electrical Installation Technician's Certificate, City & Guilds Electrical Technicians Certificate, and the Higher National Certificate in Electrical Engineering.

John's career has included extensive experience in the design, construction, inspection and testing of electrical installations, in addition to the authorship of guidance publications on the IET Wiring Regulations (BS 7671). He serves on joint IET/BSI Committee JPEL/64, which is responsible for the technical content of the Wiring Regulations. He also serves and on a number of BSI committees relating to electrical installations, and on a number of CENELEC and IEC technical committees responsible for the content of the European and international standards that form the basis of much of the content of the Wiring Regulations.

Peter E Donnachie BSc CEng FIET

BS 7671 Requirements for Electrical Installations

On leaving school at sixteen years of age, Peter served a craft electrical apprenticeship, followed by two years as a draughtsman designing electrical and lighting installations (including the first floodlighting of the Marble Arch).

Peter then took a 4-year sandwich degree course at City University and, following graduation, spent many years in the design, specification, site supervision and, latterly, project management of a wide range of building and engineering schemes. These included radio and satellite communication stations and Crown courts.

Actively involved in various BSI, CIBSE and IEE technical committees during much of his working life, on publication of the 15th Edition IEE Wiring Regulations in 1981, Peter joined the lecturing team of the IEE Courses Unit. From then until 2008, during which time he was made a Fellow (1987), he wrote many of the courses for the IEE on the 15th and 16th Editions. Peter delivered close to 500 courses and seminars on these and on the Electricity at Work Regulations and electrical maintenance, both around the UK and overseas.

Peter has made a major contribution to the Wiring Regulations and related IEE/IET publications as a member of the JPEL/64 technical committee and as an author, editor and proof-reader.

Peter Tanner MIET LCGI

Guidance Note 3: Inspection & Testing

Peter started in the electrical industry while still at school, chasing walls for his brother-in-law for a bit of pocket-money. After a spell in the armed forces, he gained a place as a sponsored trainee on the CITB training scheme. His first and only work experience placement as part of that programme was with a computer installation company located over twenty miles away; Peter proved his dedication by cycling there every morning!

On completion of his apprenticeship, Peter worked for a short time as an intruder alarm installer, mainly in domestic dwellings. Following this, he began work with a company where he was involved in shop fitting and restaurant and pub refurbishments. It wasn't long before he was managing jobs and, through professional development, gaining further qualifications. He was later seconded to the Property Services Agency, designing major installations within some of the most well-known buildings in the UK.

A career-changing accident took him into teaching. Peter says that "seeing young trainees maturing into qualified electricians is a worthwhile experience. On many occasions I still see many of my old trainees when they attend further training and update courses and seeing their successes makes it all worthwhile."

Peter has been a Lead Consultant with City & Guilds for over twenty years and is passionate about using his vast experience in the industry to maintain the high standards the industry expects. With this aim in mind, he also represents City & Guilds on various Industry Committees.

Paul Cook, CEng FIET

Guidance Note 5 Protection Against Shock; Electrician's Guide to the Building Regulations; Commentary on IET Wiring Regulations

Paul started his career as an electricity supply distribution engineer with South Eastern Electricity Board, carrying out HV and LV distribution work. He transferred to Easter Electricity, becoming contracting manager for West Herts. He worked for London Electricity and the Electricity Council and, on privatisation of the Electricity boards, he joined the IEE (now IET) drafting most of the IET guidance on the wiring regulations and was secretary of the committee responsible for the wiring regulations (BS 7671).

Since his 'retirement', he continues to work as a copywriter and consultant, principally for the IET. He continues as secretary of one of the technical panels. His latest publications are the Electricians guide to the Building Regulations and the Electrical Installation Design Guide. His

principle work is the IET Commentary on the Wiring Regulations, which he recommends to all, particularly design engineers and consultants.

Ian M Reeve BTech(Hons), Senior Engineer DMS MIET CEng

Production of BS 7671, related publications and systems

The first 20 years of Ian's career were spent with British Aerospace, initially as an undergraduate apprentice, then via Chief Production Engineer – Electronics & Assembly to Production and Engineering Manager – Electronics, including a year's secondment to Strategic Planning at BAe's HQ in London.

Ian joined the IEE with responsibility for running a course in Business and Manufacturing Management, which was eventually taken up by 80 colleges and universities throughout the UK. It was funded by the Department for Trade and Industry as part of its 'Managing into the 90's' programme, and so, as the century turned, Ian undertook a research project with the University of Westminster's multimedia unit in "How to present the IEE's Wiring Regulations in an electronic format". Ian then became responsible for the design, development and production of the IEE's Wiring Regulations on CD-ROM. He continued to work on that through six amendments of the Wiring Regulations and continues to work with other, related IET products.