

## **'PEN PICTURES' OF YELLOW BOOK STEERING GROUP MEMBERS**

### **NEIL BARNATT**

No details available

### **RICHARD BARROW C.Eng, MIET, MIRSE**



Richard joined British Rail at York in 1980 as a Student Technician Engineer and then spent 9 years designing and testing level crossing and signalling control systems. After a brief period working for InterCity as a signalling standards engineer, Richard moved to Birmingham, where he managed the Signalling Services and Design Section and implemented ISO9001 accreditation in preparation for privatisation.

Between 1995 and 2002, Richard was Signal Engineer for GT Railway Maintenance Ltd. During this time he took a lead role in developing, implementing and auditing the company signal engineering management systems. He also conceived, developed and implemented the GTRM signalling maintenance specification handbooks, which now form the basis of Network Rail's signalling maintenance instructions.

Between 2002 and 2005, Richard undertook the role of Signal Manager (Stafford) and was responsible for maintaining the operational integrity of a diverse range of legacy signalling systems which existed at that time between Rugby and Crewe, including the North Staffordshire area. During this time, a great deal of co-ordination was required with West Coast Main Line route modernisation project teams, in particular the North Staffs and S&C Alliances, which included the management of maintenance issues associated with the implementation of new point operating systems and electronic signalling control systems.

Since 2005, Richard has worked for the UK Rail Safety and Standards Board as a signalling specialist, where he is responsible for developing national signalling system requirements using a systems based approach, taking European railway requirements into account.

Richard is the Secretary of the Yellow Book Steering Group as well as being a full member and is also a member of the Yellow Book Training Subgroup. Richard made a significant contribution to the maintenance content in Yellow Book issue 4.

### **PAUL CHEESEMAN BSc (Hons), MIET, FIRSE, MSaRS**



Paul is a career railwayman and has been a main Board Director of Lloyd's Register Rail since 1997. Trained in railway signal engineering, he held posts in design and maintenance on the Western Region of British Rail before moving to BR Board Headquarters where he specialised in the development, application and assessment of safety critical systems and processes. He is familiar with current signalling and rolling stock technology, principles and practices together with the application of quantified risk techniques.

He is a member of the Yellow Book Steering Group and Railway Safety & Standards Board (RSSB) Safety Think Tank.

During 2004 he was based in Sydney, Australia developing a risk management framework for RailCorp and training their senior staff in risk-based safety management, following the Waterfall accident.

Paul was part of the team which delivered the Yellow Book work-stream in 1992 when he was working in Network South East. The emerging Quality System on system safety was adopted by Railtrack Electrical Engineering & Control Systems and published as Yellow Book 1.

Paul is responsible for validating the Atkins Lloyd's Register partnership suite of Yellow Book training courses and is an approved deliverer of Yellow Book training courses.

#### **Dr ROBERT DAVIS BSc (Hons), PhD, FIET, FIRSE, FIMechE**



Robert is a specialist in railway systems integration and R&D project management & engineering. Following an early career in the car, aerospace and defence industries he has worked extensively within the rail sector. He has previously led British Rail HQ and Network South East signalling centre developments, and has held posts as Professional Head of Electrical Engineering and Control Systems in Railtrack's Major Project Division and as Head of Systems Engineering & Integration for the £8B West Coast Programme.

He was the first Railtrack National Project Manager for ERTMS where he led the Railtrack ETCS and digital radio project sponsor teams and he later led the European Railways ECSAG group that agreed the ERTMS Class 1 Specifications with UNISIG the supplier's consortium.

He has held senior roles with Atkins since 2001 including Engineering and Managing Director of Control & Systems before leading their multifunctional Rail consultancy group. He is now a Director with Technical Programme Delivery Ltd advising on delivery of complex projects, systems integration and safety.

Robert conceived the concept of the Yellow Book and directed production and launching of the first three issues when he was with Railtrack. Previously he initiated the Yellow Book work-stream in 1992 when he was working in Network South East whose Quality system on system safety was adopted by Railtrack Electrical Engineering & Control Systems and published as Yellow Book 1. Robert validated each training course and was one of the presenters of the training course to Sir Bob Reid and the BR and Railtrack Boards in 1994. Robert initiated the establishment of the Yellow Book Steering Group after the publishing of Yellow Book 2 to ensure that ownership was by industry experts with broad stakeholder representation. He has been a YBSG member since its formation and is a past Chairman. He has been a member of the NSE Safety Assessment Panel and Chairman of Railtrack's System Review Panel and Member of the Railtrack Rolling Stock Acceptance Board.

#### **ANDREW DOHERTY**

No details available

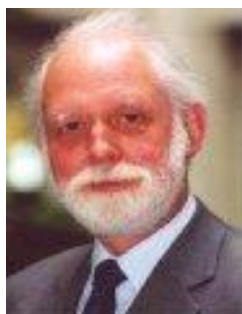
#### **TONY FIFIELD BSc (Hons), CEng, MICE, FPWI**

Tony is a senior manager with over 30 years' experience as a civil and permanent way engineer working within the railway industry. His early career was with British Rail during which time he worked on the London Midland and Western Regions. He joined Mott MacDonald in 1987 since when he has been involved in projects as diverse as the Channel Tunnel, Netherlands High-speed Line, Channel Tunnel Rail Link (CTRL), Croydon Tramlink and the rehabilitation of the Limpopo Railway in Mozambique.

Tony is a permanent way specialist with extensive experience in all aspects of permanent way design and maintenance covering both heavy and light rail applications. He has a particular interest in non-ballasted and vibration attenuating mass-spring trackforms, wheel-rail dynamics and intelligence based maintenance. He is currently Professional Head (Track) with responsibility for maintaining the quality of the Mott MacDonald's engineering outputs and supports the company's Independent Safety Assessor and Notified Body activities.

Tony became a member of the Yellow Book Steering Group in 2006 and was involved in the production of Yellow Book 4. He is also a member of the NB-Rail Infrastructure Subgroup which supports the European Railway Agency in the development of Technical Specifications for Interoperability (TSIs) and related documentation.

### **EDDIE GODDARD BSc MSc C.Eng HonFIRSE, FIET, FCIT**



Eddie Goddard has been a member of the Yellow Book Steering Group since November 1998.

Eddie joined London Underground in 1963 and has worked in all areas of signal engineering from development to maintenance. His accountabilities extended to include the setting of standards and the assurance of Rolling Stock and Systems Engineering. He is currently the Chief Engineer of London Underground, and as such covers all engineering disciplines. He chairs the London Underground engineering safety assurance panel.

During his career with London Transport International he carried out safety audits, most notably on the initial application of transmission based signalling to Toronto and of novel Interlocking systems in Austria.

Eddie was president of the Institution of Railway Signal Engineers in 1995/6 and has worked on standards review bodies for signalling and for software in railways starting with the A118 committee of ORE and was chairman of the A155 committee, he chaired the Institution of Railway Signal Engineers International Technical Committee on cross acceptance of safety systems.

### **GAB PARRIS C.Eng MIET**



Gab joined London Underground in Sept 1989 as a sponsored student. Upon completion of his degree in 1992 he joined the graduate training scheme. His first post was Assistant Signal Manager on the Metropolitan Line in 1993 and since then his role has progressed from maintenance delivery through to technical auditing and safety assurance on behalf of the Chief Engineer.

His current role as Signalling Maintenance & Assurance Engineer for London Underground's Engineering Directorate is to ensure that the Infrastructure Maintenance Companies are maintaining the signalling & control systems to the required standards and that any new signalling systems introduced on the railway are reliable and maintainable. In addition he is also involved in activities to further ensure that good practices are employed in this field. He has established and maintained contacts with other railways (metro and mainline) to benchmark maintenance and assurance processes and has actively contributed to the development of the "Yellow Book" Issue 4, and the associated Independent Safety Assessment and Maintenance Application Notes.

He has been a member of the Yellow Book Steering Group since 2006 and is also contributor to both the MODURBAN Project and the UITP Electrical Installations & Safety Systems Sub-Committee on behalf of LUL.

**Jon Shaw CEng, MSc(Eng), BEng(Hons), MIET, MIRSE  
Head of Engineering (Asia-Pacific Region), Ansaldo-STC**



Jon is a career railwayman who started out as a British Rail Graduate Trainee working at Hither Green depot in South East London. He is the Head of Engineering (Asia-Pacific) with Ansaldo-STC responsible for the performance of the Engineering Group (500 staff) and its employees and has responsibility for establishing, monitoring and auditing of engineering processes and standards and developing the engineering community across the Asia Pacific Region.

Jon has been responsible for safety, system assurance and for obtaining all approvals on various high-profile rail projects worldwide including:

- North London Line Re-electrification Safety Assessment;
- Sydney PPP Double Deck EMUs Safety Approvals & RAMS;
- Hitachi CTRL-Domestic Services Class 395 Safety Approvals & RAMS;
- Hitachi Hybrid Verification Train HST Safety Approvals;
- Korean HSR350x System Assurance;
- Singapore LTA Circle Line Loco's System Assurance;
- Hong Kong MTR Independent Safety Assessment;
- RailCorp Australia ATRICS Independent Safety Assessment;
- Crewe-Kidsgrove Electrification Safety Assessment;
- Pendolino Class 390 Testing Safety Cases;
- Voyager Class 220 QRA;
- Euston and Wellington Area Resignalling Safety Cases.

As well as being a member of the Yellow Book Steering Group and Yellow Book 4 Editorial Committee, Jon was instrumental in the development of the Yellow Book GSN Application Note and was previously a member of the IET Railway Executive and PN Technical Advisory Committees, as well as the IET Hong Kong section committee.

## **LOUISE SHAW**

Louise graduated in 1990 having earned a BEng (Hons) in Mechanical Engineering. Joining the British Railways Engineering Management Training Scheme in the Civil Engineering Plant department, she became a Chartered Engineer in 1995, having worked on BS5750 implementation after completing her training. Various posts in the BR freight businesses, and subsequently EWS, including business development and investment management culminated in the responsibility for the large wagon procurement programme undertaken by EWS between 1997 and 2003 with Thrall Europa at York.

On moving to ATOC in 2003, Louise became involved in the drafting of several Technical Specifications for Interoperability under the two Interoperability Directives, with standards in the UK with RSSB and the implementation of European legislation in the UK, such as the Interoperability and Safety Directives.

Louise is now the Director, Standards and European Affairs for ATOC, with overall responsibility for the UK Train Operating Company input into the European Railway Agency,

standards in the UK with RSSB, in Europe with CEN, CENELEC and UIC and leading the TOC input into ERTMS technical & operational development. Louise joined the Yellow Book Steering Group in 2007.

### **ED WELLS CEng, MIMechE, BSc**



Ed is a specialist in railway engineering safety, risk management and project management of performance improvement. His early career was involved in plant engineering and developing engineering management information systems. In 1990 he took on the management of the London Underground Lifts and Escalator maintenance teams following the Kings Cross Fire. In this period he delivered the challenge of significantly improving asset performance and condition, as well as improving delivery efficiency. He also provided technical input to develop LUs Quantified Risk Assessment of safety performance of the L&E assets.

In 1995 he took on the role of managing the internal Specialist Delivery Units in LU covering Power generation and Distribution, Signalling and Electrical Installation, Track Renewal, Lifts and Escalators, Train Modification and Trans Plant, the team providing Engineers Trains and other specialist track support services. In this period he also worked on the development of the London Underground PPP Contracts and led the Trades Union Consultation to transfer LUs Engineering Staff to the 'shadow running' Infraco's established to test the PPP structure. In 2003 he was appointed to his current role of Head of Assurance at Tube Lines. In this role he has led the development and implementation of risk based assurances processes to support Tube Lines £4.4B maintenance and renewal programme. This has included rationalising the approach to Audit and more recently integrating this with the Risk Management function.

Ed's engineering safety management credentials initially developed in the work on Lifts and Escalators following the Kings Cross Fire. Prior to the full implementation of the PPP Contract he set up and chaired the 'shadow running' Infraco JNP Safety Review Group and continued to manage the SRG for the early years following transfer to Tube Lines. He has also implemented with safety colleagues asset safety risk models for all the asset groups managed by Tube Lines to capture failure modes, define mitigations and controls and action to reduce risks. His first involvement with the Yellow Book was as part of the editorial committee to develop the Application Note on Maintenance published in 2005 and has been a member of the Steering Group since Mid 2006. He is also an Accredited Agent of the Rail Accident Investigation Branch (RAIB) in the LU Group.

### **KEITH WATSON**



After completing general management training with British Rail in 1972, Keith Watson spent 20 years in various posts in frontline railway operations, culminating as Area Manager Thanet in North East Kent. A career change in 1994 saw him joining Railtrack as Safety and Environment Manager. In that capacity he was one of the team that developed the first Infrastructure Controller's Railway Safety Case. Various senior posts in operational safety and safety risk management followed both in Railtrack and Network Rail. In

November 2004, Keith Watson joined Union Railways (North) as Head of Operations & Safety, with prime responsibility for managing the Client's safety approval process and obtaining the necessary statutory approvals.

He joined YBSG in 2002 and became chairman in 2006.