

FOCUS FEATURE SCHEDULE 2021



JANUARY /
FEBRUARY
2021

INNOTRANS
PREVIEW

FOCUS 1

STATIONS & PASSENGER TECHNOLOGIES

Rail Engineer reports on station construction and redevelopment, using technology to improve the passenger experience while managing access and revenue. New roofs, improved public address, platform extensions, repurposing or improving facilities, better lighting and streamlined passenger flows - it's all covered.

TOPICS:

- Accessibility
- Architecture
- BIM
- Barriers
- Buildings
- CCTV
- Car Parks
- Catering
- Cleaning
- Escalators
- Gates and Gatelines
- Heritage Issues
- Lifts
- Lighting
- Maintenance
- Passenger
- Movement and Flows
- Passenger Information Systems
- Platform-Train Interface
- Platform Screen Doors
- Platforms
- Refurbishment
- Reporting / Software
- Signage and Wayfinding
- Smart Ticketing

FOCUS 2

ROLLING STOCK & DEPOTS

With trains and their systems becoming ever more complicated, Rail Engineer's specialist writers cover everything that improves performance, increases efficiency, and keeps passengers happy. New trains, refurbished older ones, improved technology, alternative fuels, emission controls and decarbonisation are all considered.

TOPICS:

- Comfort
- Components
- Condition Monitoring
- Depots
- Driverless Technology
- Equipment
- Fuel
- Inspection
- Interiors
- Lifting
- Light-Rail Vehicles
- Lighting
- Maintenance
- New designs
- Onboard
- Entertainment
- Operation
- Passenger Information
- Platform-Train Interface
- Refurbishment
- Safety Initiatives
- Train Washing
- Tram-Train
- Underground Trains
- Wheel-Rail Interface

FOCUS 3

SURVEYING & ASSET MANAGEMENT

Surveying a site before work begins and after it has finished are important aspects of any job. Using this data to create and share information through BIM (building information modelling) not only helps asset managers have quicker access to vital information but also brings long-term benefits after handover.

TOPICS:

- 2D Plans and Elevations
- 3D Laser Scanning
- 3D Modelling & Visualisation
- Aerial Surveys and Inspection
- BIM Levels &
- Overlays
- BIM Surveys
- CCTV Drainage surveys
- Deformation Monitoring
- Gauging Clearances
- GIS (Geographic Information Systems)
- Geomatics
- Interactive Visualisations
- Mobile Mapping
- Railway Survey
- Subsurface Mapping
- Topographical Survey
- Tracing Underground Services
- Track Surveys

MARCH /
APRIL
2021

RAILTEX
PREVIEW

FOCUS 1

STRUCTURES & INFRASTRUCTURE

This issue looks at infrastructure projects. Rail Engineer's expert writers look at what's involved in maintaining and renewing the railway's infrastructure and at advances in technology aimed at making it faster, easier and more cost effective.

TOPICS:

- Asset Management
- Bridges
- Cable Hangers
- Concrete
- Construction
- Culverts
- Drainage
- Environmental
- Control
- Examinations & Inspections
- Heritage Issues
- Lifting
- Modular Systems
- New Materials
- Painting
- Plant & Equipment
- Precast Sections
- Refurbishment
- Replacement
- Rope Access
- Scaffolding
- Scour
- Spray Concrete
- Surveying Equipment
- Surveying Techniques
- Tunnelling
- Ventilation
- Waterproofing

FOCUS 2

SIGNALLING & TELECOMMUNICATIONS

Three of Rail Engineer's writers specialise in this complex field that keeps the railway running and will provide the key to increased capacity, improved punctuality, quicker journey times and safer running in the future. Reports on the 'digital railway' are balanced with others on more traditional forms of control and communications

TOPICS:

- Barriers
- Broadband
- CCTV
- Displays
- Driverless Systems
- Equipment
- ETCS / ERTMS
- GSM-R
- Gantries
- Hazard Warnings
- IP Networks
- Information Systems
- Level Crossings
- Loudspeakers
- Operating Systems
- Protection Systems
- Radio
- Resignalling Schemes
- Signalling Power
- Software
- Testing
- Training
- Warning Systems
- Wi-Fi

FOCUS 3

LEVEL CROSSINGS & TRACKSIDE SAFETY

The main interface between the railway and the public, level crossings need careful management. Technology can help reduce the risks, whether through obstacle detection, non-slip surfaces, reliable barrier machines, closed-circuit television, improved signage or red-light cameras that catch dangerous drivers.

TOPICS:

- Barriers
- CCTV
- Closure
- Control Systems
- Crossing Surfaces
- Footbridges
- Hazard Warnings
- Lighting
- Maintenance
- Obstacle Detection
- Protection Systems
- Red-light Cameras
- Safety Levels
- Signage
- Telephones
- User Behaviour

FOCUS FEATURE SCHEDULE 2021



MAY /
JUNE
2021

RAILTEX &
INNOTRANS
REVIEW

FOCUS 1

PERMANENT WAY & LINESIDE ASSETS

In this Focus feature, Rail Engineer looks at the elements that make up the permanent way - rails, sleepers, clips, pads, ballast – as well as the embankment on which the track sits, its stability, drainage and condition.

TOPICS:

- Ballast & Tamping
- Excavation
- Fastenings
- Geotechnical
- Grinding & Welding
- Installation
- Lifting
- Lighting
- Maintenance
- Milling
- On-track Machines
- Piling
- Plant Hire
- Plant Maintenance
- PPE
- Rail
- Rail Handling
- Repairs
- Road-Rail Plant
- S&C
- Site Access
- Sleepers
- Structures

FOCUS 2

ELECTRIFICATION & POWER

As the UK rail network is one of the biggest consumers of electricity in the UK, it is always investigating ways to innovate, reduce costs, introduce new power alternatives and cut carbon emissions. Safety is also a major topic, as are ways to take possessions more quickly and to install new electrification more efficiently.

TOPICS:

- Cabinets
- Cables
- Catenary
- Components
- Connectors
- Control Equipment and Systems
- Distribution
- Earthing
- Fasteners
- Generators
- Housings
- Insulation
- Lamps
- Lightning Protection
- Monitoring
- OLE
- Pantographs
- Power Supplies
- Security
- Substations
- Transformers

FOCUS 3

GEOTECHNICS, EARTHWORKS & CONCRETE

The material of choice for many construction jobs, concrete, whether as wet ready-mix or as prestressed and preformed sections, is used both to build stations and line tunnels. It also stabilises earthworks and forms drainage channels, hence the synergy in this Focus feature which highlights some of the forgotten aspects of railway engineering.

TOPICS:

- Cleaning
- Design
- Excavation
- Fastenings
- Foundations
- Geotechnical
- Geotextiles
- Gratings
- Ground Stabilisation
- Ground Surveys
- Installation
- Maintenance
- Modular Systems
- Piling
- Pipework
- Precast Sections
- Rope Access
- Soil Nailing
- Specialist Equipment
- Structure

JULY /
AUGUST
2021

RAIL
PARTNERSHIP
AWARDS
REVIEW

FOCUS 1

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FOCUS 3

PLANT & EQUIPMENT

As work on the railway becomes increasingly mechanised, due to the pressures of productivity and efficiency, Rail Engineer looks at the latest equipment and techniques that are coming to or have arrived on worksites around the network. This Focus also considers topics such as reliability, safety and automation that are increasingly relevant today.

TOPICS:

- Attachments
- Automation
- Excavation
- Hand tools
- Handling
- Hire
- Hydraulics
- Innovation
- Lifting
- Maintenance
- Piling
- Power Tools
- Product Launches
- Reliability
- Road-Rail
- Safety
- Surveying
- Transportation
- Welding
- Welfare

FOCUS FEATURE SCHEDULE 2021



SEPT /
OCTOBER
2021

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DID YOU KNOW?

Rail Engineer magazine is read by 58,500 people in print and 112,800 online.

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- Waterproofing

FOCUS 3

SUSTAINABILITY & ENVIRONMENT

The environment, in its widest context, is becoming increasingly important to rail projects, whether this be sustainable development, protecting the environment, reducing emissions or global warming. Decarbonisation, with the goal of 'Net Zero' by 2040, is a major ambition that will need a radical change in the way the railway operates.

TOPICS:

- Carbon Emissions
- Climate Change
- Coastal Protection
- Decarbonisation
- Efficiency
- Endangered Species
- Flood Prevention
- Government Targets
- Green Initiatives
- Planning
- Recycling
- Seasonal Issues
- Surveys
- Sustainability
- Sustainable Programmes
- Vegetation
- Waste Disposal
- Wildlife

NOV /
DECEMBER
2021

FOCUS 1

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- S&C
- Site Access
- Sleepers
- Soil Nailing
- Structures

FOCUS 3

LIGHT RAIL & METRO

An increasing number of commuters rely on the railway to get to work while tourists and shoppers take trams and trains to get around. This Focus looks at the train in an urban environment and how technology and engineering are increasing capacity, shortening journey times and making short-distance travel more reliable and more comfortable.

TOPICS:

- Access
- Automation
- Capacity
- Customer Information
- Dwell Times
- Electrification
- Emergency Systems
- Fire Prevention
- Interiors
- Operating Systems
- Passenger Flows
- Platform Screen Doors
- Rail
- Seating
- Signalling
- Specialised Vehicles
- Trams
- Tram-Trains
- Underground Railways
- Ventilation