

RAILWAY ENGINEERING 2019

**15TH INTERNATIONAL
CONFERENCE & EXHIBITION**

**3RD - 4TH JULY 2019
Radisson Blu Hotel
Royal Mile, Edinburgh
EH1 1TH, Scotland**

**CALL FOR PAPERS
200 word abstract deadline:
20th December 2018**



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EXHIBITION OPPORTUNITY

2 DAY EXHIBITION
2.5M X 1.5M EXHIBITION SPACE

£1,100 + VAT

To book your space please call +44 (0) 131 447 0447
or email: exhibition@ecspublications.com

RECENT EXHIBITORS INCLUDED:

Anderton Concrete Products
Elsevier Ltd
Fimor SAS
Fugro Raildata
GERB GmbH & Co.KG
Gore
PWI – Permanent Way Institute
Railway Gazette International
SRL Technical Services LTD
Systra Ltd
University of Edinburgh
West-Ter Oy
Zetica Ltd

CONFERENCE AWARDS

AWARDS WILL BE MADE TO THE BEST PAPERS IN THE
FOLLOWING CATEGORIES:

1. Railway Engineering Award
2. Railway Gazette International Innovation Award
3. Geophysics & NDT Award
4. Research Award
5. Railway Engineering Exhibition Award

To be eligible for a Conference Award, authors must
register for the Conference and present their paper.

SPONSORED BY -



THEME 1

PERMANENT WAY, RAIL MAINTENANCE SIGNALLING & ELECTRIFICATION

HIGH SPEED RAIL ISSUES

Track foundations
Ground borne vibrations
Critical track velocities & Rayleigh waves
Slab track v. ballast track
Noise and Vibration reducing measures
High speed track, including tilting trains

ASSETS

Asset databases
Systems engineering
Whole-life costing & Reliability analysis
Maintenance resourcing

MANAGEMENT

Track asset management
Journey time improvement

RAIL ALIGNMENT & TRANSITION ZONES

Curves, spirals, new algorithms
Rail and track bed stresses at transitions
Innovative measures

TRACK BED

Investigation & analysis
Track design
Track maintenance & monitoring
Ballast life & maintenance
Heavy Haul issues
Formation treatment
Ballastless track/slab track innovation

SLEEPERS & TIES

Design & rail fastening systems

SWITCHES & CROSSINGS

Maintenance and failures
Turnout issues
Turnout modelling and validation

GEOTECHNICS & GEOTEHNOLOGY

Railway drainage
Trackbed & Embankment stabilisation
Rayleigh waves
Use of geosynthetics

LIGHT RAIL - TRAM SYSTEMS

Design
Maintenance
Cost savings

WHEEL-RAIL CONTACT TRIBOLOGY

Wheel/rail interaction
Performance and failures
Wheel rail noise & vibration
Rail grinding & maintenance
Rail inspection technology
Rail steels - metallurgy & hardening
Gauge corner cracking, corrugations etc
Wheel rail traction & adhesion
Heavy Haul issues
Life prediction

ELECTRIFICATION & LIGHTING
SAFETY INTEGRITY LEVELS (SILs)
HEAVY HAUL ISSUES
CASE STUDIES

THEME 2

OPERATION, SIGNALLING, ROLLING STOCK & RAILWAY AERODYNAMICS

RAILWAY OPERATION

Scheduling
Operational safety
Maximising capacity & profitability
Reliability and risk analysis

SIGNALLING

New technology in Signalling
TPWS & ETCS
Computer based interlocking
Economics of Signalling
Safety

ROLLING STOCK & RAIL

Interfaces at railway systems – track /rolling stock
Vertical response of rolling stock on corrugated track
Noise and vibrations

RAILWAY AERODYNAMICS

Cross winds
Airflow through tunnels
Sonic booms in tunnels

THEME 3

RAILWAY STRUCTURES & EARTHWORKS

ASSETS

Asset databases
Whole-life costing
Reliability analysis

BRIDGE DYNAMICS & REPAIR

High Speed Railway Bridges
Investigation & NDT of Railway Bridges
Steel & Iron Railroad Bridges
Concrete & Post-tensioned Concrete Bridges
Masonry Arch Rail Bridges
Heavy Haul Bridges
Repair Procedures
Advanced Composites in Rail Bridge Repair
Dynamics of Railway Bridges

RETAINING WALLS

Investigation & Repair

TUNNELS

Investigation & Repair
Fire in Rail Tunnels

EARTHWORKS

Embankments & slopes
Heavy haul embankments
Condition monitoring of embankments
Stabilising earthworks
Control of vegetation

FOUNDATION SOLUTIONS

Piled foundations

HEAVY HAUL ISSUES
CONTAMINATION CLEAN-UP
STATION RENEWAL
SAFETY & ACCESS ISSUES
CASE STUDIES

NETWORKING OPPORTUNITIES & SOCIAL EVENTS



ICEBREAKER

'Malt Whisky Tasting' with BBQ style food, beer and soft drinks. This is an excellent opportunity for Speakers and Delegates (from 30+ countries) and Exhibitors to network prior to the start of the Conference. Invitations will be issued to all Delegates (& their partners) and Exhibitors.

Tuesday 2nd July 2019
19.00 – 20.00
The Exhibition Hall



CONFERENCE BANQUET & LUNCHES

BANQUET

(Optional) @ £88 + VAT Tickets may be booked on the Registration Form, including tickets for guests.

Wednesday 3rd July 2019
19.30 for 20.00

LUNCHES

A hot fork buffet lunch with soft drinks will be offered to registered Delegates and Exhibitors each day. Conference lunches and all coffee and tea breaks will be served in the Exhibition Hall.

IMPORTANT DATES

Submission of abstracts	20 December 2018
Notification of acceptance of abstract	10 January 2019
Submission of final paper	15 April 2019
Final registration date as a Presenting Author	30 April 2019
Submission of PowerPoint	12 June 2019

REGISTER ONLINE

railwayengineering.com

	EXTRA EARLY BIRD REGISTRATION FEE	EARLY BIRD REGISTRATION FEE	REGISTRATION FEE
	Before 31st January 2019	1st Feb - 31st March 2019	1st April 2019 onwards
Presenting Author	£399	£450	£500
Graduate Student Presenting Author	£299	£325	£355
Delegate (Not Presenting)	£450	£499	£550
Graduate Student (Not Presenting)	£255	£265	£280
Conference Dinner	£88	£88	£88
2-Day Exhibition Fee: 2.5m 1.5m Space	£1,100	£1,100	£1,100

Note : All fees are in UK £ GBP and are excluding UK VAT @ 20%