



IRSE NEWS is published monthly by the Institution of Railway Signal Engineers (IRSE). The IRSE is not as a body responsible for the opinions expressed in IRSE NEWS.

© Copyright 2016, IRSE. All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means without the permission in writing of the publisher. Copying of articles is not permitted except for personal and internal use. Multiple copying of the content of this publication without permission is always illegal.

Editor

Ian J Allison

11 Sycamore Road, Matlock, Derbyshire, DE4 3HZ, UK
Tel +44 (0) 7794 879286
e-mail: irsenews@irse.org

Deputy Editor

Andrew Emmerson

71 Falcutt Way, Northampton, NN2 8PH, UK
e-mail: andrew_emmerson@btinternet.com

Assistant Editors

Harry Ostrofsky

e-mail: thehzos@icon.co.za

(Africa)

Tony Howker

e-mail: ahowker@bigpond.com

(Australasia)

David Thurston

e-mail: thurston@temple.edu

(N America)

Mukul Verma

e-mail: mrverma@gmail.com

(Asia)

David Fenner

e-mail: dc.fenner@talk21.com

(Europe)

Priyank Patel

e-mail: priyankpatel@tfl.gov.uk

(Younger Members)

Helen Kellaway

e-mail: helen.kellaway@siemens.com

(Social Media)

Contributions

Articles of a newsworthy or technical nature are always welcome for IRSE NEWS. Members should forward their contributions to one of the Editors listed above

Production, Typeset & Layout

Mark Glover

e-mail: mark@polunio.co.uk

Advertising

For advertising rates and deadlines call

Andrew Walker at DVV Media

Tel: +44 (0)208 652 5214

e-mail: andrew.walker@dvvmedia.com

Advertisements are accepted on the basis that the advertiser and agency (if any) warrant that the contents are true and correct in all respects.

Web Site

For up to date information about the Institution or its activities, or to download a membership application form, log on to the IRSE Web Site: www.irse.org

London Office

IRSE, 4th Floor, 1 Birdcage Walk, Westminster, London, SW1H 9JJ, United Kingdom

Enquiries

MEMBERSHIP OR OF A GENERAL NATURE

Tel: +44 (0)20 7808 1180

Fax: +44 (0)20 7808 1196 e-mail: hq@irse.org

PROFESSIONAL DEVELOPMENT

Tel: +44 (0)20 7808 1186 e-mail: training@irse.org

LICENSING

Tel: +44 (0)20 7808 1190 e-mail: licensing@irse.org



www.facebook.com/IRSEUK
www.facebook.com/IRSE0z
www.facebook.com/ian.allison

Late October 2015 saw the opening of the UK's new National Training Academy for Rail (NTAR), an industry-wide initiative to enhance the capability that the UK industry needs if it is to maintain and upgrade its railway network. Over the coming months and years this stunning facility at Northampton will be at the centre of efforts to build up the workforce that is needed for the period of rapid change and expansion that faces the industry in the UK.

Reflecting on the articles that we have published in IRSE NEWS throughout 2015, it is clear that countries across the world have faced similar issues of a near-perfect storm of workforce resource issues, changes in stakeholder expectations and challenging economic conditions. They have tackled these in a number of different ways, for example the innovative use of technology or the application of novel programme management techniques. It is to be hoped that the lessons learnt and progress made by IRSE members on all continents can help others to ensure that our industry continues to develop to support the needs of the travelling population and freight carriers globally.

How about telling the rest of the global industry about your triumphs and successes regarding training and development in your organisation? Please feel free to contact one of the editorial team (details provided to the left of this article) in order to provide your article for IRSE NEWS.

We would like to wish all our readers a successful and prosperous New Year, and we look forward to receiving your articles and news of continuing success across the railway signalling, telecommunications and control industry throughout 2016.

The Editorial Team



Front Cover: The UK government and industry have invested heavily in tackling the issues associated with rapid technological change and an ageing workforce in rail. This is the National Training Academy for Rail at Northampton. See the article inside for more information about this multi-million pound facility.
Photo: NTAR.

IN THIS ISSUE

Page

Systems engineering framework for railway control and safety systems, Karl King	2
National Training Academy for Rail: the UK's approach to developing the workforce of the future, Simon Rennie, Jennifer Walpole & Mark Glover	8
Industry News	11
Railways for a growing world, Francis How	13
International Technical Committee article: Driving evolution towards Internet Protocol (IP) in signalling telecomms, Christian Sevestre	16
'IRSE NEWS' News: Introducing Mukul Verma	18
Feedback	18
IRSE Matters	19
News from Headquarters	19
An overview of the application process for Incorporated Engineer, <i>Judith Ward</i>	20
Midland & North Western Section: Manchester Meeting, 'Liverpool Lime Street', <i>Ian Bridges</i>	23
York Section: October and November Meetings, <i>Tony Pinkstone</i>	24
Younger Members Section: Visit to the Railway Accident Investigation Branch, <i>Helen Kellaway</i>	25
On the Move	22
Membership Matters	Back cover