

# MODEL ENGINEER

Published by MyHobbyStore Ltd.  
Hadlow House, 9 High Street,  
Green Street Green, Orpington, Kent BR6 6BG  
Email: customer.services@myhobbystore.com

Tel: 0844 412 2262  
From outside UK: +44 (0)1689 869896  
www.myhobbystore.co.uk  
www.model-engineer.co.uk

## SUBSCRIPTIONS

UK - New, Renewals & Enquiries

Tel: 08456 777 807

Email: subscriptions@myhobbystore.com

USA & CANADA - New, Renewals & Enquiries

Tel: (001) 877 363 1310

Email: expsmag@expressmag.com

REST OF WORLD - New, Renewals & Enquiries

Tel: +44 (0)1689 869896

## BACK ISSUES & BINDERS

Tel: 0844 848 8822

From outside UK: +44 (0)1689 869896

Email: customer.services@myhobbystore.com

## EDITORIAL

Editor: David Clark

Tel: +44 (0)1847 821136

Email: david.clark@myhobbystore.com

Deputy Editor & Web Editor: Diane Carney

Tel: +44 (0)1539 564750

Email: diane.carney@myhobbystore.com

## PRODUCTION

Designer: Yvette Green

Illustrator: Grahame Chambers

Retouching Manager: Brian Vickers

Ad Production: Robin Gray

## ADVERTISING

Display and Classified Sales: Duncan Armstrong

Email: duncan.armstrong@myhobbystore.com

Tel: 0844 848 5238

Online Sales: Ben Rayment

Email: ben.rayment@myhobbystore.com

Tel: 0844 848 5240

## MARKETING & SUBSCRIPTIONS

Head of Marketing: Heather Morrison

Subscriptions Manager: Paul Molyneux

## MANAGEMENT

Head of Design & Production: Julie Miller

Group Sales Manager: Jay Jones

Head of Retail: Annette Murphy

Chief Executive: Owen Davies

Chairman: Peter Harkness



myhobbystore  
media

© MyHobbyStore Ltd. 2011

All rights reserved ISSN 0026-7325

The Publisher's written consent must be obtained before any part of this publication may be reproduced in any form whatsoever, including photocopies, and information retrieval systems. All reasonable care is taken in the preparation of the magazine contents, but the publishers cannot be held legally responsible for errors in the contents of this magazine or for any loss however arising from such errors, including loss resulting from negligence of our staff. Reliance placed upon the contents of this magazine is at reader's own risk.

Model Engineer, ISSN 0026-7325, is published bi-weekly 26 times per year by MyHobbyStore Ltd. c/o USACAN Media Dist. Srv. Corp. at 26 Power Dam Way Suite S1-S3, Plattsburgh, NY 12901. Periodicals Postage paid at Plattsburgh, NY. POSTMASTER: Send address changes to Model Engineer c/o Express Mag, P.O. Box 2769, Plattsburgh, NY 12901-0239.



When you have finished with this magazine please recycle it.

Paper supplied from wood grown in forests managed in a sustainable way.



701



719

# ISSUE IN THIS ISSUE IN THIS ISSUE IN THIS ISSUE IN THIS ISSUE IN THIS

Vol. 206 No. 4405 3 - 16 June 2011

## 697 SMOKE RINGS

News, views and comment on the world of model engineering.

## 698 BUILDING A DARJEELING HIMALAYAN CLASS B 0-4-0 TANK LOCOMOTIVE IN 3½in. GAUGE

Ray McMahon makes water gauges and superheater tubes.

## 701 MERCEDES W165 IN 1:3 SCALE

Brian Perkins tackles the gearbox, crankcase and crankshaft.

## 706 MAKING A BRACKET CLOCK

John Parslow makes a simple timepiece and a striking clock.

## 710 UPDATING THE ERIC WHITTLE V8 AERO ENGINE

Mick Knights introduces his new series.

## 714 LittleLEC 2011

All the information on this year's competition.

## 716 PAINT BRUSHES, PENS AND PATIENCE

Ashley Best brings art into engineering.

## 719 AN ENGINEER'S DAY OUT

Ian Abbott reports on the South Hams working engines rally.

**FREE BOOK**  
when you subscribe to  
**MODEL ENGINEER**

Long time reader Mike Stray describes the construction of a range of miniature steam engines. Some cutting-edge designs include a cylinder double-casting engine as well as the construction of a range of boiler and engine parts. The final project is a simple engine and boiler that is easy to build. Don't miss this important feature as he builds.

**GREAT REASONS TO SUBSCRIBE**

- SAVE UP TO 20% OFF THE SHOP PRICE
- 26 ISSUES A YEAR, DELIVERED STRAIGHT TO YOUR DOOR
- NEVER MISS AN ISSUE
- ACCESS TO SUBSCRIBER ONLY CONTENT ON WWW.MODEL-ENGINEER.CO.UK

**SEE PAGE 696 FOR THIS LATEST SUBSCRIPTION OFFER**

**DON'T MISS OUT, SUBSCRIBE TODAY**

**HURRY OFFER CLOSING 17th June 2011**

**GIFT WORTH £19.95!**

**MAKING SIMPLE MODEL STEAM ENGINES**

## 722 GREAT WESTERN 5in. GAUGE LOCOMOTIVES

Peter Rich continues his design for his 'Dean Single' and 'Armstrong' 4-4-0 class locomotives.

## 726 POSTBAG

## 727 WARRINGTON & DMES

Duncan Webster writes about overcoming land ownership problems.

## 730 CHARLIE - A SOUTHERN RAILWAY Q1 LOCOMOTIVE FOR 3½in. GAUGE

Nick Feast draws his series to a close.

## 734 CLUB NEWS

Geoff Theasby takes a look at what is happening in the clubs.

## 736 DIARY

Forthcoming events.

## 738 COMPETITIONS

Win super prizes.

THE ORIGINAL MAGAZINE FOR MODEL ENGINEERS

68 PAGES IN FULL COLOUR

**MODEL ENGINEER**

Vol. 206 No. 4405 3 - 16 June 2011

ERIC WHITTLE V8 AERO ENGINE

ART AND ENGINEERING PRINTING AND LITHING MODELS

DARJEELING HIMALAYAN LOCOMOTIVE

LITTLELEC 2011

CHARLIE Q1 WARRINGTON SOCIETY

MERCEDES SILVER ARROW

GWR 5in. GAUGE LOCOMOTIVES

BUILDING A STRIKING BRACKET CLOCK

FREE PLANS! FOR GREAT 3 AND 4 inch GAUGE AND 5in. GAUGE ENGINE SINGAPORE

VISIT OUR WEBSITE [www.model-engineer.co.uk](http://www.model-engineer.co.uk)

## ON THE COVER...

Mick Knights new V8 aero engine is a 'doubled up' version of the design by Eric Whittle. Mick introduces his series on page 710. (Photo by Mick Knights)