

Yorkshire EMC & Compliance Club

February, 2004

Boroughbridge

NEWSLETTER No. 1

WELCOME!

"I would like to welcome all members, both new and existing, to the 11th year of the newly named **Yorkshire EMC and Compliance Club (YECC)**, and to the first edition of the YECC Club newsletter! The new club name reflects the ever growing number of directives emerging from Brussels and the need to cover other new approach directives, besides EMC.



I would also like to take this opportunity to send our best wishes to Ed Dawes (Club Manager) who has been absent due to ill health these past 6 weeks and will continue to be absent for three months. Many of you will know Ed and I am sure you will join me in wishing him a speedy recovery.

In line with our club objectives to keep members informed on compliance issues, we will be circulating a newsletter on a quarterly basis. Should members wish to share a piece of news or suggest a topic, contributions should be sent to ct@yorkemc.co.uk. It is **YOUR** newsletter after all!

Finally, thank you very much for your continuing loyalty to the club and I wish you all a successful year!"

Chris Marshman, Managing Director, York EMC Services Ltd.

First Meeting – 24 February 2004

As well as the regular, highly regarded Standards Update from Nick Wainwright, the first meeting of 2004 also features presentations from John Dawson, Department of Electronics, University of York and John Symonds, of REO, UK. Thanks to both guest speakers for their contribution to the club!



A brief synopsis of each speaker's talk is now provided.



"Investigation into the Radio Frequency Emissions from SMPS and Similar Switched Electronic Load Controllers Operating Under Various Loading Conditions"

The effect of load on a range of commercial switched mode power supplies and phase controllers was measured. The performance of some items was also simulated using the SPICE circuit simulator. The talk considers the effects of load on emissions as seen in the measured data and the efficacy of predicting harmonic and conducted emissions with a circuit simulator. John is a Senior Lecturer in the Department of Electronics, University of York and his particular research interests are electromagnetic

compatibility - reduction of radiation and susceptibility of circuits and systems; numerical electromagnetics - analysis of EMC and electromagnetic environments; optimisation techniques and their application to electromagnetic (and other) problems.

Power System Quality, John Symonds, Director REO UK

This topic proves extremely timely and relevant due to recent power failures in the USA, UK, Scandinavia, Italy and France, which have caused major disruption to public life.

John will inform club members about the external problems of natural phenomena and line faults on the power grid and will talk about the internal problems of increasing use of high power electronics.

He will also refer to EN standards and limits, repercussions on the grid and for the user and will outline a choice of solutions.

REO UK manufactures a range of products used in medium-voltage power systems, and specialise in custom designs of components and sub-assemblies. More information can be found at www.reo.co.uk

Next edition: A Standards Update Summary based on Nick's presentation!

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The Yorkshire EMC Club – A Short History

- **Sep 1993:** York Electronics Centre (YEC) organised a seminar on the EMC Directive during which club options were discussed. It was decided by vote that YEC would organise the club, consulting regularly with members as to its programme.

YEC awarded ERDF funding under the RECHAR programme to facilitate technology transfer, forming a club was part of this!

- **Dec 1993:** Yorkshire EMC Club inaugural meeting. Club set up under the DTI's EMC Awareness programme contracted to New Electronics Magazine.
- **Dec 1995:** YEC receive new funding under Objective 2. New test laboratory at Castleford established. Result was York EMC Services Ltd being formed as a subsidiary company of the University of York.

Club membership grew as 1 January 1996 approached.

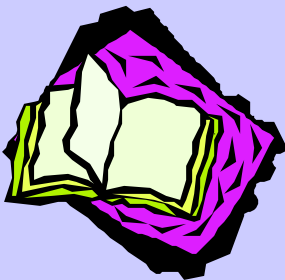
YES Ltd has continued to run and service the Yorkshire EMC Club. Membership peaked at 140 member companies from throughout the region and beyond. This put us in contact with approximately 400 individuals.

Members have come from as far away as Portugal and Northern Ireland and we began to regard ourselves arguably as the most successful EMC Club.

- **July 1997:** EMC York Conference and Exhibition launched, originally seen as a 'Super' Club Event.
- **Dec 2003:** Club reaches 10th anniversary! Following evaluation of members' questionnaires, the Club will have an updated name for 2004, the 'Yorkshire emc and Compliance Club' to more accurately reflect the topics considered, particularly taking account of the ever growing number of Directives from Brussels.

Club Update:

Most of the club organisers meet regularly under the auspices of the NFCEC (National Forum for CE Compliance). All clubs now include other Directives as well as EMC – notably Machinery Safety, LVD, WEEE. It should be noted there are now 20 new approach Directives.



DATES FOR YOUR DIARY

18 Feb: Workshop, The Technical Construction File, Castleford (York EMC Services Ltd.)

19-20 Feb: Workshop, EMC Testing, Castleford (York EMC Services Ltd.)

24-28 May: Short Course, Fundamentals of Design & Testing, York (York EMC Services Ltd.)

24-28 May: Short Course, EMC in Railways, York (York EMC Services Ltd.)

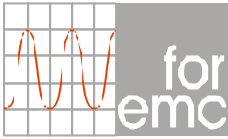
1-2 July: EMC York Conference & Exhibition, The Racecourse, York.

Reminder: All YECC members are entitled to a 10% discount on training/workshop events...

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FOR-EMC Workshop Comes to North Yorkshire!

York EMC Services Ltd recently hosted a two-day FOR-EMC Workshop, (the Forum of laboratories for implementing EU Electromagnetic Compatibility Directive). FOR-EMC is an initiative funded by the EU Competitive and

Sustainable Growth Programme. Its purpose is to encourage shared learning and knowledge transfer concerning the EMC Directive, with the aim of preparing candidate states for the process of its implementation in May 2004.

The forum is the first attempt to found a network of EMC laboratories on a European scale, allowing both the Department of Electronics and York EMC Services Ltd the opportunity to showcase their EMC expertise to EU candidate states looking to learn from their experience.



The delegates arrive in sunny York!

The event was rather like a two-day club meeting featuring presentations from Nick Wainwright, David Hambley, Chris Marshman and Dave Imeson and also demonstrations at Castleford. It was a great success with participants from some 19 European countries attending! The next meeting is to take place in Oslo in June 2004. For more information, visit the web site at www.for-emc.org

The UK's leading EMC event has just got bigger!



York EMC Services Ltd is proud to host EMC York 2004 on 1st and 2nd July, in

association with the IEE. 2004 will mark the 8th **annual EMC York Conference and Exhibition**, which has grown over the years to become the leading UK CE marking event – and this year has developed one stage further into a two day international event (still free for club members!)

According to Chris Marshman, Managing Director of York EMC Services Ltd, "the added international dimension to the conference reflects the globalisation of electronics and therefore EMC related industries and the need for often simultaneous compliance in many countries. It also allows for a great networking opportunity amongst EMC professionals from across the world, providing an international forum for shared learning."

To ensure that the conference covers all essential EMC developments, an International Technical Steering Committee has been carefully selected for their complementary EMC expertise. This highly reputable committee includes:

- Prof Andrew Marvin (University of York)
- Prof Johan Catrysse (KBHO Oostende, Belgium)
- Prof Heyno Garbe (University of Hanover, Germany)
- Prof Gyorgy Varju (Budapest University of Technology and Economics, Hungary)



The conference and exhibition will take place at York Race Course over two days, with the option of attending one or both days, on the 1st and 2nd of July.

The conference will aim to support all levels and interests – with various parallel streams to choose from, including dedicated workshops (on EMC and Railways for example), academic papers, standards updates - to keep abreast of ever changing EMC technical requirements and EMC legislation. This will be complemented by a technical exhibition.

Full details at www.yorkemc.co.uk or from Savilla Liddle at enquiry@yorkemc.co.uk

Next edition: April 2004, please send any contributions/news to ci@yorkemc.co.uk before **31st March 2004!**