

Discussion

Readers can send in comments of up to 200 words on all papers and articles published in *Civil Engineering*. Subject to being approved by the editorial panel, full texts of readers' comments and authors' responses are published in the on-line version of the journal at www.ice.org.uk/jol (select *Civil Engineering* journal, then click on text link to *Discussion*). Edited highlights of the discussion on papers in the May 2003 and special issue are published here.

12936 Civil engineering's image in schools – and how to change it

by L. Hamill and L. Hodgkinson

Contribution by Geoffrey Wort

The paper unfortunately deals with the symptoms, not the cause. As with all the other expressions of dissatisfaction about status, pay and image, there is an inability to see the bigger picture. In the case of the authors it is not surprising, but for civil engineers there is now no excuse.

Even in a market as large as construction, wasteful and inefficient producers can only expect to achieve low profits at best, and hence be driven to low cost solutions – including pay. There is an almost complete lack of customer-centred strategy and management in the industry. To those who would argue that their role is entirely about working with the client: this is only within the existing structures of an industry that delivers 35% waste.

As I write this I am enjoying a pint in the City. I am surrounded by smart prosperous looking young people, Porsches parked not far away. I doubt whether they are any more able than chartered civil engineers and the financial sector has had their share of disasters; but one thing they strive for above all is to respond to the market. As the intellectuals of the construction industry, civil engineers really must now get with it instead of suffering the inevitable effects of economics.

Authors' reply

We do not doubt that the status of civil engineers would be improved instantaneously if they all earned £100 000 per annum and drove Porsches! Realistically, we did not feel qualified to judge the effect on the construction industry of pay rises significantly above inflation. However, pay is important.

The industry should examine its working practices, salaries and culture to ensure that the image it aspires to is based upon reality and is appropriate for the twenty-first century.

Contribution by Peter Wiltshire

The civil engineering profession is comparable to a private company that suffers from a failing brand image. The way that Skoda successfully addressed the problem was through a £15 million marketing spend and by having a product that people value.

We will never have the money but we could at least try to match our product to customer values. Instead of indulging in self pity for the lack of appreciation for our work, we ought to be thinking quick and hard about why we have failed so badly in the image stakes over the last 30 years.

In a future world stuffed full of articulate, self-confident and mathematically estranged journalists, we can expect much more questioning of the reasoning behind our actions. It will no longer be good enough to know how to build a bridge. It will be more important to explain why it is being built. A better brand image would help.

Authors' response

A few years ago the engineering community was about to launch a 'ground breaking' 5-year advertising-led marketing campaign that was developed for them by a major advertising agency, J. Walter Thomson.¹ This aimed to change the national perception of engineering and to promote engineering careers to young people. Unfortunately it was postponed due to lack of funds.



If civil engineers want to own Porsches, they need to explain why they are building bridges and know how to create less waste in the process

This paper unfortunately deals with the symptoms, not the cause.

Whether or not advertising alone can be successful in changing engineering's image is debatable, but its chances would be increased if there were more mainstream engineering-friendly TV programmes. This medium is very influential and is perhaps the best vehicle to establish positive role models in the public's mind and to raise the status of engineering.

However, there are no guarantees; as Hamilton² pointed out, most of the G7 group countries—with the exception of Japan and the Pacific Rim—are experiencing declining numbers entering engineering degree courses even though the status of engineers is relatively high in these countries.

Contribution by Bronagh Liddicoat

I was concerned at what seems to be a major omission within the section 'What can be done'. Coordination of information to schools is being provided by 53 Setpoints throughout the UK under the umbrella of the national Setnet organisation. Setpoint web sites (e.g. www.setpointsussex.org.uk) also provide such an on-line information resource for schools.

Also, no mention was made of the successful Science and Engineering Ambassadors programme which has been operational now for just over a year. Ambassadors provide schools with a local resource to support teachers of science, design and technology, mathematics and ICT. The programme is funded by the DTI and by the Engineering and Technology Board (ETB) – the latter using the contributions made by all members of the Institution within their annual subscription.

Author's reply

The Setpoints and Science and Engineering Ambassadors programme join a long list of initiatives to raise the status of engineers, something the Council of Engineering Institutions (CEI) was charged to do when it was created in 1965. It failed, as did its successor the Engineering Council. The latter created such schemes as Neighbourhood Engineers, the Young Engineers for Britain competition and Project UNCLE amongst others. There are many other initiatives, such as the recent Year of Engineering Success and National Construction Week 2003 (www.ncw.org.uk).

The activities are to be applauded but few, if any, appear to have been entirely successful. In future it is essential that such initiatives are fully evaluated and the results disseminated. However, in the authors' opinion, if the status of civil engineers is to be raised then ideally the ICE, which has been in existence since 1818, should be the lead partner and should coordinate activities.

Similarly, for engineering as a whole, the ETB states that part of its role is 'to improve the perception of engineering and engineers'. It is almost 40 years since the CEI was given a similar task, and the authors wait with interest to see how the ETB fulfils its role.

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References

1. Engineering Council. Engineering image campaign put on ice. *Engineering First*, August 1999, 4.
2. Hamilton, J. The Engineering Profession, Engineering Council, London, November 2000. www.engc.org.uk/publications/pdf/Hamilton.pdf

13207 Channel Tunnel Rail Link: the case for safety by Simon French

Contribution by John Hislam

What would happen when trains running in opposite directions in a tunnel at speeds of up to 300 km/h collided due to one being partially derailed?

Authors' reply

There is a concrete upstand between the two tracks. This is designed to withstand the forces imposed by a derailed train and would therefore serve to ensure that the opposite track remains unobstructed.

Experience in France shows that the probability of a derailment on plain line is extremely low. However, in all cases where high-speed derailments involving TGV-style trains have occurred, the trains have remained clear of the opposite line.



Proceedings

> RECENTLY PUBLISHED PAPERS

In addition to *Civil Engineering*, the *ICE Proceedings* includes seven specialist journals. Papers published in the most recent issues are listed here. Summaries of all these and other papers published in the past 3 years can be read free on the ICE web site at www.ice.org.uk/jol.

Bridge Engineering

156, No. BE2, June 2003, 55–107

Dynamics of the Hungerford Millennium footbridges, UK

M. S. Fletcher and J. S. Parker

Analyses of a composite bowstring truss with tension stiffening

R. P. Johnson

Section model tests on human–structure lock-in

A. McRobie, G. Morgenthal, J. Lasenby and M. Ringer

Real strength of high-performance concrete bridge deck slabs

S. E. Taylor, G. I. B. Rankin and D. J. Cleland

Seismic response analysis of long-span steel arch bridges

A. S. Nazmy

Design of strengthening works for an 1890s steel rail bridge

G. Waley, S. D. Wilkins and H. Barbour



Engineering Sustainability

156, No. ES2, June 2003, 67–126

BRIEFINGS

Johannesburg Earth Summit—what next?

A. Macnair

News from the Environment and Sustainability Board

ICE Charter for Sustainable Development

Sustainable development progress—cement and concrete

D. Collins

Moving towards sustainability in the sewage treatment industry

J. Thornton

Sustainable steel construction: building a better future

M. Sansom

Lime versus cement: traditional methods for today's buildings

I. Pritchett

PAPERS

Urban infrastructure procurement in low-income countries

M. Sohail and A. N. Baldwin

Sustainability of bitumen use in highways

R. A. Peden

The use of 'managed retreat' in coastal engineering

N. J. Cooper

The effects of pumping on the energy potential of a tidal power barrage

T. L. Shaw and M. J. Watson

Flexible power generation from the tides

T. L. Shaw and M. J. Watson

MEETING REPORT

Designing for health and safety

J. de Souza

Geotechnical Engineering

156, No. GE4, October 2003, 171–230

BRIEFINGS

Embankment cuttings: condition appraisal and remedial treatment

J. Perry, M. Pedley and M. Reid

PAPERS

Use of settlement reducing piles to support a raft structure

J. P. Love

Settlement prevision of piles under vertical load

F. Castelli and E. Motta

Local settlements and sinkholes due to EPB tunnelling

J. N. Shirlaw, J. C. W. Ong, H. B. Rosser, C. G. Tan, N. H. Osborne and P. E. Heslop

Sampling disturbance effects in soft laminated clays

M. Long

DISCUSSION

Determination of parameters for a hyperbolic model of soils

N. Al-Shayea, S. Abduljawwad, R. Bashir, H. Al-Ghamedy and I. Asl

DISCUSSION

Determination of parameters for a hyperbolic model of soils

N. Al-Shayea, S. Abduljawwad, R. Bashir, H. Al-Ghamedy and I. Asl

Municipal Engineer

156, No. ME2, June 2003, 79–153

BRIEFINGS

Making the Connections: Final Report on Transport and Social Exclusion. Report by the Social Exclusion Unit 2003

B. Simpson

Social inclusion and the Disability Discrimination Act 1995

S. Homer

Safer travel by design: reducing crime on public transport

J. Stafford

PAPERS

Conceptualising social inclusion: some lessons for action

C. C. Williams and R. White

Understanding social exclusion and social inclusion

S. Kenyon

Transport, social exclusion and young people in rural England

P. Dibben

Social inclusion implications of park-and-ride

G. Parkhurst

Gender mainstreaming within local planning authorities

C. Greed

Gender mainstreaming within local planning authorities

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Engineering and gender issues—evidence from low-income countries

B. J. Reed and S. Coates

Water and sanitation for the disabled in low-income countries

H. E. Jones, R. A. Reed and J. E. Bevan

Strategic marketing of water services in developing countries

C. Njiru and K. Sansom

Improving access to transport in developing countries

T. Savill, J. Stone, C. Venter and D. Maunder

Structures and Buildings

156, No. SB3, August 2003, 227–336

A spatial displacement model for skewed multi-rib T-beams

R. H. Wang, Q. Z. Luo, J. Tang and Q. S. Li

Foundation and structural design of the Bibliotheca Alexandrina

M. Hamza and M. Ghoneim

Blast-induced vibrations in urban residential buildings

E. M. L. Carvalho and R. C. Battista

Oblique bending in U-shaped steel sheet piles

M. P. Byfield and R. J. Crawford

Wind-induced vibration analysis of the Hong Kong Ting Kau Bridge

C. Su, D. J. Han, Q. S. Yan, F. T. K. Au, L. G. Tham, P. K. K. Lee, K. M. Lam and K. Y. Wong

Environmental impact of brick arch bridge management

K. Steele, G. Cole, G. Parke, B. Clarke and J. Harding

Reliability of nailed timber connections with gusset plates

I. Drummond and A. Kermani

Steel sway frames tested to collapse

A. Cunningham, A. G. Kamtekar and G. H. Little

Analysis of multi-braced earth retaining structures

H. B. Xiao, J. Tang, Q. S. Li and Q. Z. Luo

Design of slab–column junctions in flat slabs

N. K. Subedi and P. S. Baglin

DISCUSSION

Vortex-induced vibrations of the Second Severn Crossing cable-stayed bridge: full-scale and wind tunnel measurements

J. H. G. Macdonald, P. A. Irwin and M. S. Fletcher

Behaviour and strength of FRP-strengthened RC structures: a state-of-the-art review

J. G. Teng, J. F. Chen, S. T. Smith and L. Lam



Transport

156, No. TR4, November 2003, 171-224

BRIEFING

Private finance initiative and public private partnerships

Institution of Civil Engineers Transport Club

PAPERS

Development and research of road management systems in China

W. G. Wong, G. P. He and S. T. Luk

Traffic generated by office and retail developments in Singapore

W. Y. Tan and H. S. L. Fan

Which technology for urban public transport?

A review of system performance, costs and impacts

C. Brand and J. Preston

Assessment of bond condition using the Leutner shear test

A. C. Collop, N. H. Thom and C. Sangiorgi

Water and Maritime Engineering

156, No. WM3, September 2003, 219-295

Hydraulic characteristics of the Jamuna River gauging section, Bangladesh

G. M. Tarekul Islam and J. U. Chowdhury

Modelling of meandering channels for overbank flow

J. Spooner and K. Shiono

A methodology for national-scale flood risk assessment

J. W. Hall, R. J. Dawson, P. B. Sayers, C. Rosu, J. B. Chatterton and R. Deakin

Air entrainment and oxygen transfer in a venturi

A. Baylar and M. E. Emiroglu

Study of aeration efficiency at stepped channels

A. Baylar and M. E. Emiroglu

Integrated modelling of urban watercourses

R. W. Crabtree, P. Dempsey, I. T. Clifforde, S. Quinn, B. Henderson and A. Wilson

Use of calcium carbonate as a wet contact filter

J. Sallanko, R. Kamula and J. Röpölinen

TECHNICAL NOTE

On establishing uniform channel flow with tail gate

B. C. Yen

DISCUSSION

An unusual marine outfall off central California, USA

R. A. Grace

Wave-speed-discharge relationship from cross-section survey

D. W. Knight, X. Tang and P. G. Samuels

Development of a modelling tool to quantify faecal indicator levels in Cardiff Bay

E. Harris, R. Falconer, D. Kay and C. Stapleton

A new approach for directing proactive sewer maintenance

R. A. Fenner, L. Sweeting and M. J. Marriott



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Books

>>> ON-LINE REVIEWS

Expert reviews of the following books that have been submitted to *Civil Engineering* are available in the on-line version of the journal at www.ice.org.uk/jol (select *Civil Engineering*, then click on text link to reviews).

Science and Technology Ethics

by various authors, published by Routledge, 2002, reviewed by **Gordon Millington**

Eleven essays by academics on major ethical issues in science and engineering, including environmental issues and nuclear development – an excellent read with extensive references.

The Many Facets of International Education of Engineers

by Jean Michel, published by AA Balkema, 2000, reviewed by **Ian Whyte**, UMIST

Proceedings of an international conference embracing a wide spectrum of engineering education and training, of interest to those involved in international trends in collaboration.

The relationship manager

By Tony Davis and Richard Pharro, published by Gower Publishing Limited, 2003, reviewed by **Mark Rudrum**, Arup & Partners

Practical guidance on how to make this new way of working a reality and details the skills and techniques necessary to make a success of the latest developments in project management.

The bid manager's handbook

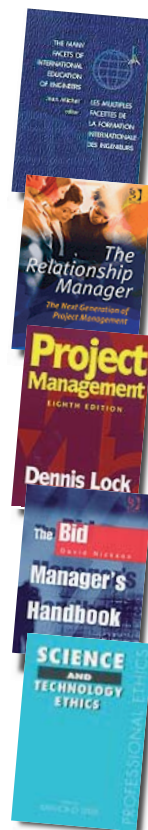
By David Nickson, published by Gower Publishing Limited, 2003, reviewed by **Mark Rudrum**, Arup & Partners

Practical guidance on all the aspects and interfaces required to produce a quality bid to a tight timescale and budget. Particular emphasis is placed on planning to save time – the example bid plan being particularly useful.

Project Management 8th edition

By Dennis Lock, published by Gower Publishing Limited, 2003, reviewed by **Tony Caccavone**, Manchester Business School

Comprehensive with simple case studies that will provide an invaluable jargon-free reference guide to both the newly-appointed and the experienced project manager.



>>> NEW BOOKS

The ICE's bookshop in London carries one of the most comprehensive range of civil engineering publications in the world. New books received in the past three months are as follows.

Architects & Builders Price Book 2004	
Spon	£120
Best Practice Tendering for Design and Build Projects	
A. Griffith, A. King and A. Knight	£35
Bridge Engineering: a Global Perspective	
L. F. Troyano	£95
Civil Engineers & Highway Works Price Book 2004	
Spon	£120
Design of Linear Drainage Systems	
M. Naqvi	£45
Elements of Spatial Structures	
M.Y.H. Bangash and T. Bangash	£135
Geosynthetics: Protecting the Environment	
N. Dixon (ed)	£40
Health and Safety Law for the Construction Industry; 2nd Edition	
Masons	£25
Hydraulic Design of Side Weirs	
R.W.P. May, B.C. Bromwich, Y. Gasowski and C.E. Rickard	£45
Landscape & External Works Price Book 2004	
Spon	£90
Managing Innovation in Construction	
M. Jones and M. Saad	£50
Mechanical & Electrical Services Price Book 2004	
Spon	£120
Port Designer's Handbook	
C.A. Thoresen	£135
Prestressed Concrete Bridges	
N. Hewson	£70

The bookshop is in the ICE foyer, 1 Great George Street, London SW1P 3AA and is open from 9.30 am to 5.00 pm, Monday to Friday. Books can also be ordered by calling +44 (0)20 7665 2462, emailing orders@thomastelford.com or visiting www.thomastelford.com.

Internet

Editor Simon Fullalove's selection of new websites likely to be of interest to civil engineers. If you know of a site you think should be included here, please contact him on +44 (0)20 7665 2448 or email simon.fullalove@ice.org.uk

IN BRIEF

www.technology-watch.info

Updates on new and emerging information and related technologies relevant to the construction industry (Free)

TECHNOLOGY WATCH
for the UK Construction Industry

www.ceequal.com

Details and registration information for the Civil Engineering Environmental Quality Assessment Awards Scheme (Free)



www.ice.org.uk/iceextra

Extranet service providing access to new ICE on-line newsletter, Civil Engineering journal, Council minutes etc. (Free to ICE members)

ICEextra

www.lsx.org.uk

Independent implementation support organisation for sustainable development in London (Free)

LSx

www.ctrl.co.uk

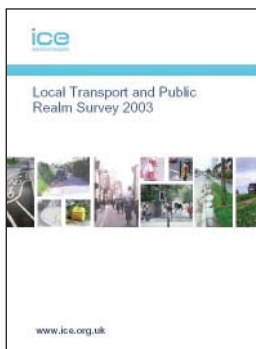
Progress reports, photographs and maps of the final section the Channel Tunnel Rail Link (Free)

Channel Tunnel Rail Link

ICE review

A review of recent and forthcoming developments and events at the Institution of Civil Engineers by ICE communications director Anne Moir. For further information please contact the communications office on 020 7665 2196.

Local transport survey



ICE's 2003 *Local Transport Survey* reveals that 72% of local authorities report a deterioration over the past year in Britain's local roads, footpaths and cycleways – on

which more than three quarters of all journeys are made. Compiled from research among local authorities in Great Britain with statutory responsibility for roads and pathways, the survey suggests that the road maintenance backlog has increased by approximately 12%, from an estimated £7.4 billion in 2002 to £8.3 billion in 2003, equivalent to £150 for every person.

According to John Sanders, chairman of the ICE municipal engineering board, 'We understand that local authorities have many other pressing demands on their budgets. However, road maintenance can only be ignored for so long before carriageways, footways, bridges and street lighting deteriorate beyond repair. We want to see both revenue and capital funding for transport ring-fenced and allocated amounts guaranteed beyond elections, be they local or general.'

The ICE also supports measures to introduce a consistent methodology to measure road quality and calculate the budget required to bring the road network to an acceptable level. The Institution will press the Government to ensure that such a broad indicator is adopted as soon as possible to ensure realistic targets for improvement can be set and met.

The full survey is available via ICE's website at www.ice.org.uk.

Environmental quality scheme

In September the ICE launched its Civil Engineering Environmental



Quality Awards Scheme (CEEQUAL) for assessing the environmental quality of civil engineering projects. It is a civil engineering equivalent to BREEAM for buildings.

The scheme is being promoted by ICE, BRE, CIRIA and a group of industry organisations. Its objective is to encourage environmental excellence in civil engineering projects and thus deliver improved environmental performance in project specification, design and construction.

A credit-based assessment framework is used, which is applicable to any civil engineering project and includes environmental aspects such as the use of water, energy and land as well as ecology, landscape, nuisance to neighbours, archaeology, waste minimisation and management, and community amenity.

Four projects—two flood defence schemes and two sewage works—were presented with 'excellent' CEEQUAL awards at the launch. To register your project for an award, visit www.ceequal.com.

Value-added website

The ICE is currently developing a new website for members, which is due for launch in January 2004. In response to the recent ICE membership survey, the new site will offer a variety of on-line products and services tailored to the needs of the institution's diverse audience.

Before the new website is available, however, ICE members are able to register for an enhanced on-line service known as ICEExtra. This is a secure extranet available exclusively to members of any grade, and offers the ability to

- read *Civil Engineering* and other ICE journals on-line
- receive a new, email newsletter service called *ICEExtra news*
- review ICE Council meeting minutes
- change personal details or make subscription payments
- register for areas of special interest.

By providing a regular email news service, the ICE hopes to offer updates on the action it is taking on members' behalf with-

out excessive printing costs or environmental impact. Specialist technical and events news will continue to be made available via the Infoshare email service.

Members can register for ICEExtra at www.ice.org.uk/icextra



President's reception

ICE's outgoing president Adrian Long was joined by nearly 200 guests at his formal reception at One Great George Street on 8 September. He chose the theme of sustainable development, delivering a speech on its importance for both civil engineering and society as a whole. Guest speaker Sara Parkin of Forum for the Future, who also sits on the *Civil Engineering* editorial panel, reinforced the message.

Lord Howie of Troon, Environment Agency chief executive Baroness Young and Phil Hope from the Office of The Deputy Prime Minister were among the guests representing the Government.

Incoming president Douglas Oakervee will be formally inaugurated this month.



Outgoing president Adrian Long (centre) presenting the 2003 Telford Medals to Lidija Zdravkovic and David Potts at his reception.

ICE meetings

The following ICE meetings and seminars have been organised by ICE staff and regions. All are free to attend unless indicated by (£). Before travelling, please contact the organiser or visit the ICE web site at www.ice.org.uk to confirm details. Events have been classified under broad but not necessarily exclusive headings.

Title	Date (dd/mm)	Organiser	Contact	Telephone (+44 outside UK)	Email	Venue
MANAGEMENT AND GENERAL						
ICE Presidential Address	04/11 17:30	ICE conferences	Marianne Jones	020 7665 2314	marianne.jones@ice.org.uk	London
Programming for compensation events under the NEC	05/11	ICE Thames region	Jon Hancock		j.hancock01@imperial.ac.uk	Reading
Adjudicators' Surgery 2003	10/11 10:00	ICE conciliation and adjudication advisory panel	Brendan van Rooyen	0207 665 2224	brendan.vanrooyen@ice.org.uk	London
Merit of Maintaining Archives	10/11 10:45	ICE Wales region	Graham Copus	01656 662370	denys.morgan@ice.org.uk	Swansea
Health and Safety Executive Intervention Strategy	10/11 18:30	ICE North West region	Steve Jones	0161 911 4337	env.highways.structures@oldham.gov.uk	Liverpool
Egan: for or against?	11/11	ICE East Midlands region	Greg Guthrie	01572 755525	whittakers@webleicester.co.uk	Thorpe Wood
Future of ICE	11/11 18:00	ICE South region	Mark Spurduty	01243 777638	mark.spurduty@westsussex.gov.uk	Eastleigh
Big Institution debate	12/11	ICE Thames region	John Done	0118 988 4816		Guildford
Value of Ideas	12/11 18:15	ICE East of Scotland region / IStructE	Jon Hassel	0131 226 4693	jon.hassel@cbuchanan.co.uk	Edinburgh
Change Management - Revolution or Evolution	12/11 18:30	ICE North West region	David Boyer	0151 233 4149	david.boyer@liverpool.gov.uk	Preston
Future of the ICE: Suicide or Rebirth?	12/11 18:30	ICE South East region	Anne Qualters	020-8289 6444	aqualters@btopenworld.com	Tonbridge
Risk and Reward in Asset Management Delivery - who is best prepared for the challenges ahead?	14/11 09:00	CIWEM / ICE water board	Sue Frye	020 7665 2315	sue.frye@ice.org.uk	London
Rethinking Construction, a practical partnering seminar	19/11 16:30	ICE East of Scotland region	Chic Haggart	01738 476540	cbhaggart@pkc.gov.uk	Dundee
Managing for Corporate Survival (£)	20/11	ICE North West region	Janice Parkinson	07976 313 656	icecube@ice.org.uk	Wigan
Health and Safety	20/11 18:00	ICE Midlands region	Colin Steiner	07714 204901	colin.steiner@virgin.net	Coventry
CDM and Design Risk Assessment	24/11 13:00	ICE North West region / HSE	Rob Clarke		rob.clarke@capita.co.uk	Junction 23 On M6
Robert Stephenson Great Northern Civil Engineer from 14th September	25/11	ICE Northern Counties region	J Michael Taylor		jmichaeltaylor@talk21.com	Newcastle Upon Tyne
Building with the NEC	02/12	NEC panel	Alice Staite	020 7665 2313	alice.staite@ice.org.uk	London
Professionals meet the Politicians	03/12 19:00	ILT / ICE Wales region / IHT	Margaret Everson	01446 451227	denys.morgan@ice.org.uk	Cardiff
ICE Conditions of Contract (£)	04/12	ICE East of Scotland region	Thomas Telford Training	0800 1830133	training@thomastelford.com	Falkirk
Contractor's Health and Safety CHAS	04/12 18:30	ICE London region	Shailen Shailendra	07958 488605	shailen.shailendra@ntworld.com	London
Business Planning	08/12 18:30	ICE North West region	Steve Jones	0161 911 4337	env.highways.structures@oldham.gov.uk	Liverpool
History of ICE	10/12	ICE Thames region	Suzanne Bland	01372 863916	suzanne.bland@halliburton.com	Reading
What the Wright Brothers knew and how to build an aeroplane	10/12 18:30	ALGS and ICE London region	Paul Steen	020 7631 5291	paul.steen@whitbybird.com	London
Latest surveying techniques	13/01	ICE East Midlands region	Kat Adam	01572 755525	whittakers@webleicester.co.uk	Thorpe Wood
Contractual Partnering	14/01	ICE East Anglia region	John Pardoe	01245 247 098	ice.eanglian@constructionplus.net	Norwich
Present Day Contracts (£)	15/01 13:30	ICE North West region	Janice Parkinson	07976 313 656	icecube@ice.org.uk	Wigan
Rethinking Construction	15/01 18:30	ICE London region	Tim Warren	0791 905 8140	tjw52@admin.cam.ac.uk	London
Egan Report	22/01 18:00	ICE Midlands region	Andy Knowles	0121 212 3035	andy.knowles@scottwilson.com	Birmingham
Partnering and Alliance	22/01 18:30	ICE North West region / IoM	Sharon Stevens	01978 297 109	sharon.stevens@wrexham.gov.uk	Ellesmere Port
ENVIRONMENT AND ENERGY						
Waste Management at Soroti Referral Hospital, Uganda	06/11 00:00	ICE Wales region	Richard Morris	029 2075 5755	denys.morgan@ice.org.uk	Cardiff
Urban Design (£)	06/11 12:30	ICE East Midlands region	Steven Wiles	01522 553084	wiles@lincolnshire.gov.uk	Grimby
Waterwheels as a power source: past, present and future	13/11 18:00	ICE East of Scotland region	Steve Wallis, Heriot-Watt University	0131 451 3149	s.g.wallis@hw.ac.uk	Edinburgh
Hydro Power: Britain's Least-Cost, Environmentally Friendly Energy Solution?	18/11 19:30	ICE Chilterns region / IMechE / IEE	Brian Powell	01296 481 680		High Wycombe
Sustainable Construction - What is it?	19/11 14:30	ICE South region	Andy Finch	023 9283 4620	afinch@portsmouthcc.gov.uk	Portsmouth
Radioactive Waste Management and the place of Nuclear Power in the UK Energy Mix	03/12 18:30	ICE North West region	Jane Collins	0161 228 2331	jane.collins@arup.com	Manchester
Wave Energy	08/12 18:30	ICE East of Scotland region / Scottish Hydraulic Study Group	Andrew Martin	01224 631 122	amartin@arch-henderson.co.uk	Aberdeen
Alternative energy	06/01 00:00	ICE East Midlands region	Rosemarie Whittaker	01572 755525	whittakers@webleicester.co.uk	TBC
Langford Recycling Scheme	07/01 00:00	ICE East Anglia	John Lemay	01245 247 038	ice.eanglian@constructionplus.net	Chelmsford
Wind Energy	07/01 00:00	ICE East Midlands region	Paul Coathup	01522 553015	coatp@lincolnshire.gov.uk	Scunthorpe
Growth Within Northamptonshire	20/01 18:30	ICE Midlands region	Paul Thompson	01933 231730	pthompson@wellingborough.gov.uk	Northampton
West Cambridge Masterplan: Sustainable Development in Practice	21/01 00:00	ICE East Anglia region	Victoria Chittenden	01223 463 630	ice.eanglian@constructionplus.net	Cambridge
Green Building Design into Reality	21/01 18:00	ICE South region	Andy Finch	023 9283 4620	afinch@portsmouthcc.gov.uk	Southampton
Competing for Open Space	21/01 18:15	ICE East of Scotland region	Chic Haggart	01738 476540	cbhaggart@pkc.gov.uk	Dundee
Wind Energy - A Route to a Low Carbon Future	28/01 00:00	ICE East Anglia region	Wesley Wray	01473 624 326	ice.eanglian@constructionplus.net	Ipswich
GEOTECHNICAL						
Railway Geotechnics	10/11 18:00	ICE East Midlands Geotechnical Group/ Permanent Way Institution	Ed Faragher	01509 282304	ed.faragher@advantica.biz	Loughborough
Rocks Beneath Your Feet	11/11 18:30	ICE Midlands region	Andrew Culley	01432 261955	aculley@herefordshire.gov.uk	Hereford
Pile Testing at Terminal 5	12/11 17:30	British Geotechnical Association	Gavin Bowyer	020 7665 2233	gavin.bowyer@ice.org.uk	London
Flexible Emission Control and Risk Analysis - The Two Tools for the Civil Engineer's Response to the Contaminated Land Problem	18/11 18:00	ICE South region	Jo Clark	023 8059 5439	jo.clark@soton.ac.uk	Southampton
Geothermal Piles	18/11 18:15	ICE East of Scotland region	Alstair Chisholm, Arup Scotland Ltd	0131 331 1999	alstair.chisholm@arup.com	Edinburgh
Steel Piling in Urban Environments	18/11 18:30	ICE North West region / IStructE	Jane Collins	0161 228 2331	jane.collins@arup.com	Manchester
Tsunami	26/11 17:30	Society for Earthquake and Civil Engineering Dynamics	Eunice Waddell	020 7665 2238	eunice.waddell@ice.org.uk	London
Slope (In)stability at Ventnor	26/11 18:15	ICE Wales region / CIBSE	Malcolm Turner	029 2049 7000	denys.morgan@ice.org.uk	Swansea

Title	Date (dd/mm) and time	Organiser	Contact	Telephone (+44 outside UK)	Email	Venue
Debate – The 4 Year MEng Degree has reduced demand for MSc s and thus created a skills shortage in Geotechnical Engineering	01/12 19:00	ICE Midlands region / MGS Society / GS	Jeff Mosforth	01926 813747	jeff@geotechnical.co.uk	Birmingham
Marine Geotechnics	02/12 18:15	ICE Northern Counties region	R Forth		ra.forth@ncl.ac.uk	Newcastle Upon Tyne
Tunnelling Under Stonehenge	10/12 18:00	ICE South region	Iain Banks	01962 893170	ikb@mm-winnm.mottmac.com	Winchester
Settlements and Sinkholes in Singapore	11/12	British Tunnelling Society	Gavin Bowyer	020 7665 2233	gavin.bowyer@ice.org.uk	London
Urban Groundwater	11/12 18:00	ICE East Midlands Geotechnical Group/ Geological Society	Ed Faragher	01509 282304	ed.faragher@advantica.biz	Keyworth
Contaminated Land – An Environmental Health Officer's View	16/12 18:30	ICE Midlands region	Paul Thompson	01933 231730	pthompson@wellingborough.gov.uk	Northampton
Ground anchorages and their assessment using GRANIT	12/01 18:30	ICE East of Scotland region / IStructE / Concrete Society	Andrew Martin, Arch-Henderson	01224 631122	amartin@arch-henderson.co.uk	Aberdeen
Active Barriers	13/01 18:15	ICE East of Scotland region	Alistair Chisholm	0131 331 1999	alistair.chisholm@arup.com	Edinburgh
Development and Applications in Shallow Engineering	21/01 18:00	ICE Wales region	Emma Paris	029 2087 4336	denys.morgan@ice.org.uk	Cardiff
Bingley Bypass - Geotechnical Aspects	27/01 18:15	ICE Northern Counties region			ra.forth@ncl.ac.uk	Newcastle Upon Tyne
STRUCTURES AND MATERIALS						
Brighton West Pier	05/11 18:00	ICE South region	Jacqui Brown	01962 869263	jacqui.brown@ice.org.uk	Brighton
Forensics of Failure	06/11 18:30	ICE South East region	Anne Qualters	020-8289 6444	aqualters@btopenworld.com	Maidstone
Fabrication of Rion Antrion Bridge across Corinth Strait	11/11 18:15	ICE Northern Counties region / IStructE	Michael Thompson	01642 634866		Holiday Inn, Stainton, Middlesbrough
Portsmouth Spinnaker Tower	12/11 18:00	ICE South region	Donald McCallum	01983 522769	mccallum@dfmccallum.co.uk	Isle of Wight
Behaviour of Materials in Extreme Conditions	18/11	ICE conferences	Sue Frye	020 7665 2315	sue.frye@ice.org.uk	TBC
Sustainable use of materials	19/11	ICE Thames region / IHT	Chris Rickards	01491 873 870		Wallingford
Strain Gauge and Instrumentation workshop	19/11 09:30	ICE East of Scotland region	Bruce Brown, Mitsui Babcock	0141 885 3948	bbrown@mitsuibabcock.com	Glasgow
Seven Arches Viaduct	20/11 18:00	ICE Northern Counties region	Victoria Edmondson	01228 673215		Carlisle
Paramics versus VISM-D modelling	20/11 18:30	ICE Wales region / ILT / IHT	Bob Brierley	01633 463385	denys.morgan@ice.org.uk	Cardiff
BT Network Management Centre site visit	20/11 19:00	ICE Midlands region	Mervyn Burrows	01743 240804	mburrows@parkman.co.uk	Oswestry
Science of Rollercoasters	26/11 18:30	ICE North West region	Paul Williams	01925 828 987	paul.williams@atkinsglobal.com	Manchester
Conservation Accreditation Register for Engineers	27/11 17:30	ICE structural an building board	Eunice Waddell	020 7665 2238	eunice.waddell@ice.org.uk	London
INSTARMAC site visit	27/11 18:30	ICE Midlands region	Steve Morgan	01782 232138	steven.morgan@civi2.stoke.gov.uk	Tamworth
Gateshead Music Centre	02/12 18:15	ICE Northern Counties region / IStructE / RIBA	Robert Thorniley-Walker	01609 779904		Middlesbrough
Innovation in the use of concrete	03/12	ICE Thames region	Alan Bromage	01344 762 676		Guildford
Sage Music Centre	08/12 18:15	ICE Northern Counties region			johnjohnson@capita.co.uk	Newcastle Upon Tyne
Moveable Bridges – New and Old Construction and Refurbishment	10/12 18:30	ICE North West region / IStructE	Charlotte Rourke	0161 962 1214	charlotte.rourke@babtie.com	Preston
British Antarctic Survey, New Marine Life Research Station, King Edward Point, South Georgia	11/12 18:00	ICE Midlands region	Anna Miklasz	0121 237 4000	aam@mm-birm.mottmac.com	Birmingham
Wembley Stadium	02/01	ICE East Midlands region	Mark Edgar	01724 843491	mark.edgar@clugston.co.uk	Lincoln
Trials and Tribulations with Historic Buildings	06/01 18:15	ICE Northern Counties region / IStructE / IHBC	Michael Thompson	01642 634866		Holiday Inn, Stainton, Middlesbrough
Gateshead Millennium Bridge	07/01 18:30	ICE Chilterns region / Bedford Civil Engineering Society	Paul Walker	01865 483 345 or 01494 528562	ptee@rix1.demon.co.uk	Kempston
British Airways London Eye	13/01 19:30	ICE Chilterns region / IMechE / IEE	Paul Walker	01865 483 345 or 01494 528562	ptee@rix1.demon.co.uk	High Wycombe
Construction of Liverpool Anglican Cathedral (Centenary)	19/01 18:30	ICE North West region	Steve Jones	0161 911 4337	env.highways.structures@oldham.gov.uk	Liverpool
Tall Buildings	20/01 18:30	ICE Chilterns region / IStructE	Bill Murdoch	020 7629 3818	billm@stjamesconsultants.com	St Albans
Design lessons from nature	21/01	ICE Thames region	John Done	0118 988 4816		Oxford
Innovation in Strengthening	22/01 18:00	ICE Northern Counties region	Jonathan Leach	01946 784189		Whitehaven
Introduction of the European Standard for Concrete	22/01 18:30	ICE North West region / IStructE	Paul Williams	01925 828 987	paul.williams@atkinsglobal.com	Manchester
TRANSPORT						
Influencing Change in Travel Behaviour	04/11 18:00	ICE East of Scotland region	Neil Ferguson	0141 548 3181	n.s.ferguson@strath.ac.uk	Edinburgh
Higham and Strood Tunnels	06/11 18:00	Railway Civil Engineers' Association	Pauline Arundel	020 7665 2236	pauline.arundel@ice.org.uk	London
Debate: This house agrees that more flights and jobs are worth the noise and traffic (£25)	07/11 12:30	ICE Chilterns region	Louisa Rix	01767 62704	ptee@rix1.demon.co.uk	Luton
Thermoplastic Lining	10/11 18:30	ICE East of Scotland region / IHT / ILT	Andrew Martin	01224 631122	amartin@arch-henderson.co.uk	Aberdeen
Congestion Charging	12/11 18:00	ICE South region	Kerry McDermott	023 9283 4612	kmcdermott@portsmouthcc.gov.uk	Southampton
Getting Freight Onto Rail: How Local Government Can Help Realise The Vision	12/11 18:30	Transport Planning Society / ICE association of London graduates and students	Ann Scannell	020 7665 2229	ann.scannell@ice.org.uk	London
Bridge Referenced Life Cycle Assessment	13/11 16:15	ICE Wales region	Simon Lander	029 2035 2300	denys.morgan@ice.org.uk	Cardiff
A465 Dowlais to Tredgar Site Visit	14/11 11:00	ICE Wales region	Richard Davies	029 2082 7076	denys.morgan@ice.org.uk	Cardiff
Congestion Charging - Beyond Central London?	17/11	ICE transport board	Juliet Hutchings	020 7665 2318	juliet.hutchings@ice.org.uk	London
Changing Role of The Highways Agency	18/11 18:30	ICE Midlands region / IHT	Paul Thompson	01933 231730	pthompson@wellingborough.gov.uk	Northampton
Do We Need a South Coast Motorway?	19/11 19:00	ICE South East region	Anne Qualters	020-8289 6444	aqualters@btopenworld.com	Hastings
Crossrail	20/11	British Tunnelling Society	Gavin Bowyer	020 7665 2233	gavin.bowyer@ice.org.uk	London
Interchange	25/11	ICE Chilterns region	David Young		david.young@emap.com	Westminster
CTRL Crossing the Thames	26/11	ICE East Anglia region	John Lemay	01245 247 038	ice.eanglian@constructionplus.net	Chelmsford
Track Renewals Contracting Strategy	27/11 18:00	Railway Civil Engineers' Association	Pauline Arundel	020 7665 2236	pauline.arundel@ice.org.uk	London
Network Europe	27/11 18:30	ICE London region	David Davies	020 8883 6227	david.davies@atkinsglobal.com	London
Delivering Highways Maintenance Management – What can we learn from the industry?	02/12 18:00	ICE South region	Robert Dorritt	01483 240522	robert.dorritt@hyderconsulting.com	Portsmouth
Rothersthorpe: pushing a box under the M1	02/12 18:00	ICE East Midlands region	James Cuthbert	01629 761761	james.cuthbert@scottwilson.com	Chesterfield
South Hampshire Rapid Transit (Phase 1) – Delivering the Deal	03/12 18:00	ICE South region	Jacqui Brown	01962 869263	jacqui.brown@ice.org.uk	Portsmouth
Kent County Council Budget Splits for Highway Works	03/12 18:30	ICE South East region	Anne Qualters	020-8289 6444	aqualters@btopenworld.com	Aylesford
M1 Junction 15A	03/12 18:30	ICE Chilterns region / IHT	Andrew Povey-Richards	01234 373736	andrew_povey-richards@urscorp.com	Hemel Hempstead
Home Zones	04/12 18:30	ICE North West region	Paul Williams	01925 828 987	paul.williams@atkinsglobal.com	Manchester
New Technologies in the Vehicle	09/12 18:00	ICE South region / Institute of Highways and Transportation	Kerry McDermott	023 9283 4612	kmcdermott@portsmouthcc.gov.uk	Winchester
Developing Tayside Links by Air and Train	17/12 18:15	ICE East of Scotland region	Chic Haggart	01738 476540	cbhaggart@pkc.gov.uk	Dundee

Title	Date (dd/mm) and time	Organiser	Contact	Telephone (+44 outside UK)	Email	Venue
Road Safety: The Speed Camera Debate continues	08/01 18:30	ICE North West region	Sharon Stevens	01978 297 109	sharon.stevens@wrexham.gov.uk	Ellesmere Port
New Terminal Building at Liverpool John Lennon Airport	12/01 18:30	ICE North West region / IStructE / RIBA	Steve Jones	0161 911 4337	env.highways.structures@oldham.gov.uk	Liverpool
Home Zones Challenge – North West Bognor Home Zone	14/01 18:00	ICE South region	Kerry McDermott	023 9283 4612	kmcdermott@portsmouthhcc.gov.uk	Winchester
Bridging The Medway	20/01 18:30	ICE South East region	Anne Qualters	020-8289 6444	aqualters@btopenworld.com	Chatham Maritime
Droitwich Canal / British Waterways	20/01 18:30	ICE Midlands region	Malcolm Corlett	01562 887505	malcolm.corlett@edmund-nuttall.co.uk	Droitwich
CTRL Ashford Box Design	21/01 17:30	British Geotechnical Association	Gavin Bowyer	020 7665 2233	gavin.bowyer@ice.org.uk	London
Dundee City Centre to the Tay: Breaking Barriers and Engineering New Links	21/01 18:15	ICE East of Scotland region	Chic Haggart	01738 476540	chaggart@pkc.gov.uk	Dundee
Network Rail	22/01 18:00	Railway Civil Engineers' Association	Pauline Arundel	020 7665 2236	pauline.arundel@ice.org.uk	London
Rail Infrastructure Maintenance Policy	22/01 18:15	ICE Wales region	Simon Lander	029 2035 2300	denys.morgan@ice.org.uk	Cardiff
Highways Agency Priorities Over the Next Decade	22/01 18:30	IHT / ICE Midlands region	Johnny Ojeil	0121 213 3000		TBC
Road Death Investigation Manual	22/01 18:30	ICE London region	Steve Miller	01992 711081	steveg.miller@constructionplus.net	London
WATER AND MARITIME						
ISO 19900 Series - International Standards for Offshore Structures	05/11 17:30	Offshore Engineering Society	Will Harley	0207 665 2239	will.harley@ice.org.uk	London
Flooding – An International problem (£)	10/11 09:30	ICE East of Scotland region	Wylie Cunningham	0141 221 5276	wylie.cunningham@ice.org.uk	Edinburgh
Offshore Engineering	10/11 18:15	ICE Northern Counties region	John Johnson	01491 838800	johnjohnson@capita.co.uk	Newcastle Upon Tyne
Problems with Culverts and Weirs	12/11	ICE East Anglia region	Victoria Chittenden	01223 463 630	ice.eanglia@constructionplus.net	Cambridge
Water Quality	12/11 10:00	British Hydrological Society / ICE water board	Colin Neal	01491 838800	cn@wpo.nerc.ac.uk	London
Managing our aquatic environment in 21st Century: contemporary issues of water quality	12/11 10:25	British Hydrological Society / ICE water board	Colin Neal	01491 838800	cn@wpo.nerc.ac.uk	London
Sustainable Drainage Systems	19/11	ICE East Anglia region	Jacqui Braby	01603 224 284	ice.eanglia@constructionplus.net	Norwich
How Can We Provide the Water for the Government's Proposed Developments in Kent?	25/11 12:00	ICE South East region	Anne Qualters	020-8289 6444	aqualters@btopenworld.com	London
Catchment Abstraction Management Strategies (CAMS) – Early Experiences	27/11 17:30	British Hydrological Society	Helen Procter	01903 703822	helen.procter@environment-agency.gov.uk	London
Postgraduate Research in Hydrology and Hydraulics	03/12 18:00	British Hydrological Society / Scottish Hydraulics Study Group / ICE water board	Michael Cranston	01738 627989	michael.cranston@sepa.org.uk	Herriot-Watt University
SUDS	04/12 18:00	ICE Northern Counties region	Steve Pollington or Dave Buckden		01900 826193	Penrith
Emerging Environmental Issues (Dredging)	05/12	Central Dredging Association / ICE maritime board	Marianne Jones	020 7665 2314	marianne.jones@ice.org.uk	London
Barrages – the Kotri project	10/12	ICE East Midlands region / IStructE	Mark Anderson	01572 755525	whittakers@webbleicester.co.uk	Thorpe Wood
Ocean Energy Developments - Tide, Wave and Wind	07/01	Offshore Engineering Society	Will Harley	0207 665 2239	will.harley@ice.org.uk	London
Glasson Sea Defence Scheme	14/01 18:30	ICE North West region	Jane Collins	0161 228 2331	jane.collins@arup.com	Preston
Sewer Flooding in Glasgow	14/01 18:30	British Hydrological Society / ICE water board	Michael Cranston	01738 627989	michael.cranston@sepa.org.uk	Glasgow
Shrewsbury Flood Defences	15/01 18:30	ICE Midlands region	Mervyn Burrows	01743 240804	mburrows@parkman.co.uk	Shrewsbury
Wastewater Treatment	22/01	CIWEM / ICE Wales region	Alasdair Harry	0141 847 5678	alasdair.harry@biwater.com	Warrington
Water and poverty - redressing the balance	22/01 18:00	British Hydrological Society	Helen Procter	01903 703822	helen.procter@environment-agency.gov.uk	London
Portfolio risk assessment and case histories	26/01 17:30	British Dam Society / ICE water board	Tim Fuller	020 7665 2234	tim.fuller@ice.org.uk	London
Vernon Harcourt Lecture 2004	27/01 18:00	ICE water board	Kathleen Hollow	0207 665 2242	kathleen.hollow@ice.org.uk	London
Seabed Liquefaction and Submarine Landslide	28/01 17:30	Society for Earthquake and Civil Engineering Dynamics / Offshore Engineering Society	Pauline Arundel	020 7665 2236	pauline.arundel@ice.org.uk	London

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