



Selected articles featured in Civil Engineering Surveyor from 1999 to 2009

The following list is not a definitive record of past feature articles in CES, if you cannot find what you are looking for, please contact ICES HQ for assistance. The topic matters are general and therefore inevitably there will be some overlap. If you would like to order a copy of a past article from CES, please contact the editor on t: 0161 972 3100 or e: editor@ices.org.uk

Please note a small administration charge may apply.

Bridges	2	GIS and Mapping	20	Military Engineering	33
IK Brunel	3	GNSS & Machine Control	22	Photogrammetry	
Construction Law	4	Health and Safety	23	& Laser Scanning	34
Contaminated Land/Site		Highways and Roads	24	Piling & Groundworks	36
Investigation	8	Hydrographics	25	Project & Commercial	
Contracts	9	Institution Business	27	Management	37
Dispute Resolution	11	Insurance & Finance	28	Rail	40
Education & Training	13	Interviews	29	Then and Now (Historical)	41
Energy	15	IT and Software	30	Transport (General)	42
Environment	16	Major Projects	31	Tunnelling/Underground	43
FIG	17	Method of Measurement		Utilities	44
Geospatial Engineering	18	for Highway Works	32		

BRIDGES

New Hungerford bridge off the blocks Costain December/January 2000

Widening and strengthening of the Kingston Bridge TN Healey and JHW Counsell February 2000

Gateshead Millennium Bridge project John Johnson October 2000

Inspection and assessment of bridges Adrian Couper October 2000

Crossing the Nile: Aswan Bridge Abdul Farooq February 2001

First covered footbridge across the Thames: The Jubilee Bridge Bill Higgins October 2001

Brother and Sister on Medway River Name supplied June 2001

Bridge design using finite element analysis Paul Belchamber October 2002

Bridges at the SCI David Iles May 2003

CTRL completes UK's biggest bridge slide Pascale Jessel June 2003

Bridges under the knife Walter Smyth and George Johnston December/January 2004

Stainless steel reinforcement — An introduction to future durability Edward James May 2004

The bridges of Rhode Island: Part I Barry Hiscox December/January 2006

The bridges of Rhode Island: Part 2 Barry Hiscox February 2006

The bridges of Rhode Island: Part 3 Barry Hiscox March 2006

Finnieston Bridge Douglas Grant July/August 2006 Big Mac:The Mackinac Bridge Barry Hiscox July/August 2006

Monitoring bridge movement Neil Parkinson May 2007

Mersey Gateway: Building a bridge to prosperity Steve Jones September 2008

Bridges safe to cross? The state of bridges in the USA Barry Hiscox March 2009

The bridge challenge Steve Whitfield May 2009

BRUNEL (ISAMBARD KINGDOM)

Small man – Tall hat: The engineering of IK Brunel Hamish Mitchell December/January 2002

A gorgeous bridge Hamish Mitchell February 2002

God's wonderful railway — Part I:A gauged beginning Hamish Mitchell March 2002

God's wonderful railway — Part 2: Bristol bound Hamish Mitchell April 2002

God's Wonderful Railway — Part 3: South to Exeter Hamish Mitchell May 2002

God's Wonderful Railway — Part 4: Atmosphere south of Exeter Hamish Mitchell July/August 2002

God's Wonderful Railway — Part 5: In Kernow Country Hamish Mitchell September 2002

The complete railwayman Hamish Mitchell October 2002

One more river to cross Hamish Mitchell November 2002

He saw three ships Hamish Mitchell December/January 2003

Isambard Kingdom Brunel's chamber of secrets revealed Martin Rogers and Chris Edge February 2003

Materia medica Hamish Mitchell December/January 2004

Putting the 'great' back in Great Britain: Brunel's ss Great Britain is relaunched Dagmar Smeed June 2005

Happy birthday Isambard Hamish Mitchell April 2006

Brunel's temple in the west Hamish Mitchell September 2006

CONSTRUCTION LAW

The legal liabilities of project managers Martin Howe April 1999

Concurrent delays Karen Scott April 1999

12 February '99: A red letter day or black Friday? John Rushton April 1999

Bill of quantities rates Terry Kelly September 1999

Set-off in the construction/civils industry Jeremy Winter November 1999

Third party rights under a contract Gillian Birkby November 1999

Who takes the risk? Samantha Watson February 2000

Concurrent delay – the new case law Jeremy Winter March 2000

Employment status alone no bar to giving expert evidence Christopher Pamplin March 2000

Procurement: It's a risky business Simon Tolson April 2000

Construction law research – Views from an ivory tower Dee Davenport November 2000

Simple QS matter goes to court Roger Knowles February 2001

Will £30m bid costs be paid? Roger Knowles March 2001

A matter of great interest Roger Knowles April 2001

That nothing of itself will come John Fraser Gordon April 2001

Retention – A bone of contention Roger Knowles May 2001 Hudson's formula revisited – A recent case Roger Knowles June 2001

Concurrent delays: How are they resolved? Roger Knowles July/ August 2001

Are employees at risk? Roger Knowles November 2001

Latham revisited – A progress report part I James M Arnott July/August 2001

Latham revisited – A progress report part 2 James M Arnott September 2001

Employers' insurance – Its effect on contractors' liability for negligence Jeremy Winter October 2001

If you get it wrong, do you always have to pay? Roger Knowles December/January 2002

Agreement by the parties ignored by the courts Roger Knowles March 2002

Pay when paid Michael Frisby March 2002

Programmes and contractual entitlement Daniel Atkinson May 2002

Restoring the balance — Or simply raising different questions? John M Rushton July/August 2002

There is no substitute for proof Roger Knowles July/August 2002

Acceleration reduces time but increases cost Roger Knowles September 2002

Corporate killing Derian Keyms November 2002

Advocate's immunity Jeremy Winter and Paul Cain November 2002

Extensions of time - Notice as a condition precedent to entitlement Jeremy Winter and Michelle Essen December/January 2003

Courts' review of completion Roger Knowles December/January 2003

SCL delay and disruption protocol - An update Jeremy Winter February 2003

Liquidated damages and Barnet FC Geoff Brewer March 2003

Manager's costs recoverable Roger Knowles May 2003

Let the punishment fit the crime Roger Knowles May 2003

The phoenix syndrome — The liability of directors Geoff Brewer July/August 2003

Liquidated damages Jeremy Winter October 2003

No wormhole to the courts — Legal notebook David Carrick November 2003

The Unfair Contract Terms Act Geoff Brewer November 2003

Kill Howard — Legal notebook David Carrick December/January 2004

Out of court... Out of mind Dennis Gedge February 2004

Don't risk it with asbestos Daniel Jude May 2004

Recovery of contractor's fixed cost/head office overhead and profit David Carrick with David Scott June 2004

We're all going on a summer holiday, but is it paid leave? Kate Meadowcroft June 2004

Building in disability awareness — Challenges for the construction industry Derek Ching with Prof. Keith Bright October 2004

Legal liabilities of cost managers and cost consultants Alistair Groves November 2004 Head office overheads revisited — Legal notebook David Carrick November 2004

Reimbursement of overheads Geoff Brewer December/January 2005

The tenable tender David Carrick February 2005

Letters of intent: Should they be a thing of the past? Roger Knowles March 2005

No cause for global issues James Levy and Clive Greenwood March 2005

Letters of doubtful intent Ellis Baker and Anthony Lavers April 2005

The expert's immunity: The end of the road — you have been warned James Levy and Clive Greenwood April 2005

The Italian Job III: Legal Notebook David Carrick June 2005

DTI consultation paper looks like a damp squib Roger Knowles June 2005

Legionella trial Rachel Clayfield July/August 2005

Letters of intent — When is a contract not a contract? Emma Judge October 2005

Retention — Is it time for a balanced view? Roger Knowles November 2005

The accrual of a cause of action Geoff Brewer November 2005

Highlights of the second edition of the TCC guide Lindsay Yuill November 2005

When's payday? David Carrick December/January 2006

Business immigration Neil Gouldson March 2006

Contemporary record sheets and non-chargeable breaks Nigel Ribbands March 2006

DTI Consultation: A worthwhile way of marking Valentine's Day? John M Rushton April 2006

Two juggernauts collide — Many casualties expected David Carrick April 2006

The expert witness and legal immunity Steven Williams May 2006

Maybe man can serve two masters after all John Rushton FInstCES May 2006

Corporate manslaughter: On the home straight towards the new law? Jeanette Harwood May 2006

Midland Expressway — Provisional sums Steven Carey and Melanie Tomlin June 2006

A question of impartiality David Carrick June 2006

Injudicious choices Eugene Lenehan June 2006

Construction delay and disruption — Liquidated damages clauses Daniel Atkinson July/August 2006

Causes of action which run in parallel Roger Knowles July/August 2006

Trafalgar meets Armageddon Steven Carey September 2006

Payment notices Steve Slessor September 2006

Latent defects cover, why bother? Paul Donnelly October 2006

Cash is king Roger Knowles November 2006

Project delays: Time for a change Simon Longley November 2006 Interest on sums owed Geoff Brewer December/January 2007

New corporate manslaughter and corporate homicide law expected 2007 Mark Henrick, Edward Persse and Daragh McDonald December/January 2007

It never rains but it pours Tom Wrzesien April 2007

When is a variation not a variation? Simon Longley April 2007

lan Duncan Wallace QC Jeremy Winter May 2007

Assignment of rights: No escape Steven Carey May 2007

The role of expert witnesses distinguished in Scotland David Carrick May 2007

TCC: Banishing the old perceptions Jeremy Winter June 2007

Onerous conditions Daniel Atkinson June 2007

The government finally reveals its intentions: The reform of the adjudication and payment provisions within the Construction Act Jeremy Glover July/August 2007

The truth and nothing but the truth Dennis Gedge September 2007

Caveat sausages David Carrick September 2007

Construction and engineering law in the US Frank A Perrone, Timothy P Callahan, Charles S Kelley October 2007

Corporate manslaughter law puts spotlight on safety Steffan Groch October 2007

We live in strange times David Carrick with Susan Black October 2007

An Irish Dutch auction David Carrick November 2007

The operation of advance payment arrangements Geoff Brewer November 2007

CESMM3 v HKGSMM: Civil engineering measurement claims in Hong Kong John B Molloy November 2007

Extensions of time and LADs: Still causing problems? Nigel Ribbands November 2007

Upsetting the apple cart or a fresh approach to delay? City Inn v Shepherd Construction David Carrick February 2008

Valuation of variations: Petromec v Petroleo Brasileiro (2007) Daniel Atkinson February 2008

Damages for losses from breach of public procurement rules Chris Mackay March 2008

Quantifying disruption —The measured mile David Merritt April 2008

Global claims Daniel Atkinson May 2008

Liquidated damages: Beware the occupier Steven Carey June 2008

Performance bonds Geoff Brewer June 2008

Extensions of time - Somewhere in time: Securing and protecting your contractual rights Howard Klein July/August 2008

Letters of intent can seriously damage your wealth James Levy September 2008

Signs of a slump in commercial construction Helen Garthwaite November 2008

Security concerns: Bonds and guarantees Hamish Lal and Emily Busby December/January 2009

Procurement law update: Five hot topics in procurement law Edward Quigg May 2009

Blacklisting in the construction industry Julian Bailey and John Armstrong May 2009 Value, risk and litigation: A new unholy trinity? Alun Oliver July/August 2009

The construction and engineering pre-action protocol:The cost of non-compliance Julian Bailey July/August 2009

CONTAMINATED LAND

Risk assessment for gas contaminated ground P Witherington March 1999

Contaminated land Roger Johnson March 2000

A guide to the new contaminated land regime Sean Ryan May 2000

The contaminated land regulations (2000): A significantly risky business Adam Czarnecki & Sarah Dack March 2001

The remediation question Paul Webster March 2001

Liability law on contaminated land David Blackburn March 2002

Back to the future: Historical Imagery points the way to contaminated land risk Dr Alun Jones March 2002

Foundation techniques and remediation of brownfield land Dr Chris Evans March 2002

Smaller rigs for contaminated sites Catherine O'Connor March 2002

Brownfield development — Realising opportunities, managing risks: CIRIA's guide to brownfield management Doug Laidler March 2003

Biological methods for contaminated land management – Three case studies A report from CIRIA March 2003

The legacy of the revolution (contaminated land) James Rogers March 2003

Hidden liabilities associated with contaminated land Anthony Joyce May 2003

Drive for brownfield regeneration brings opportunities Mark Hunter February 2004

Managing risks on contaminated land John Crowther March 2004 Landfill directive sets new challenges Tim Jessop March 2004

The management of large-scale remediation schemes with consideration to environmental management systems and sustainability Dr Martin Cross March 2005

The investigation and assessment of contaminated land Dr Chris Evans March 2005

4 August 2006: All change for the contaminated land regime Anna Rabin July/August 2006

Invasive species — Why all the fuss? Andy Allinson March 2007

Regeneration for the 21st century: Newlands Keith Jones March 2008

Effective contamination investigation is a measure of success Nick J Langdon March 2008

Non-intrusive site investigations: An integral part of any site assessment Mark Whittingham March 2008

Site investigation and modelling for chalk solution features Adam Branson March 2009

Contaminated land — the options John Carlon March 2009

Developments in bioremediation Paul Mathers March 2009

CONTRACTS

New ICE conditions of contract launched Andrew Morley October 1999

New 7th edition of the ICE conditions of contract Jeremy Winter December/January 2000

Changes to the NEC for the CTRL (Channel Tunnel Rail Link) Peter Collins February 2001

Frequent problems encountered in the use of the ECC form contract Alan Bates July/August 2000

Asset management contracts in public-private sector partnership Nicky Watkins October 2000

PPC 2000: A partnering contract for the future Roger Knowles December/January 2001

Valuation of variations under the ICE conditions of contract – The thrills and spills of tendering Jeremy Winter June 2000

The NEC form: Is it all it's cracked up to be? Roger Knowles September 2001

Design and build – new risks Helen Garthwaite November 2001

Update on FIDIC's rainbow forms of construction contracts Jim McCluskey May 2001

A Review of the NECD Steven Williams October 2002

Is the ECC contract working as expected? Roger Knowles April 2003

ECC option C — The contractual significance of time, risk and float Alan Williamson July/August 2003

Guaranteed maximum price — Fact or fiction? Roger Knowles July/August 2003

The major project form: Some unanswered questions John Rushton October 2003 Latest contract from the JCT stable Roger Knowles February 2004

ECC options C, D and E — Working areas overheads percentage Alan Williamson May 2004

e-procurement for Dwr Cymru Welsh Water Paul Hogan September 2004

ICE has been rewired David Carrick September 2004

Procurement trends Martin Kennard and Roy Sinclair October 2004

The contractual status of bills of quantities' omissions under the ICE conditions of contract 7th edition (January 2003) Alan Williamson November 2004

NEC ECC third edition — The expected key changes Michael Rowlinson June 2005

Improving payment practices in the construction industry: The response Abigail Tomkins September 2005

The target price on cost reimbursable contracts Roger Knowles with Mike Gregson September 2005

NEC ECC third edition — The revised family Michael Rowlinson September 2005

The NEC David Carrick October 2005

When Irish eyes are smiling? Proposed changes to the government's standard forms of contract in the Republic of Ireland James Golden November 2005

NEC ECC third edition — Revisions to the schedules of cost components and the fee in the ECC Michael Rowlinson November 2005

Draft public works contracts in the Republic of Ireland Will Merriman December/January 2006

NEC ECC third edition — Changes to the compensation events and associated procedures Michael Rowlinson December/January 2006

New JCT forms Jeremy Winter February 2006

NEC ECC third edition — What's new in core clauses I and 2 — Key dates and other things Michael Rowlinson March 2006

NEC ECC third edition — Changes to core clauses 3, 4 and 5 Michael Rowlinson April 2006

ICE conditions of contract: Some cases on time limits Jeremy Winter and Eleanor Kewish April 2006

NEC3 Changes to the Engineering and Construction Contract — the final instalment Michael Rowlinson June 2006

Subcontracting under the NEC3 Michael Rowlinson July/August 2006

NEC3: Six rounds with Carrick David Carrick with Robert Gerrard September 2006

Target price contracts and how to make them work Simon Longley September 2006

The NEC3 professional services contract Michael Rowlinson October 2006

The use of FIDIC in water projects — 10 key points to consider Sarah Thomas October 2006

By the book: The RIDOT Blue Book Barry Hiscox December/January 2007

PPP and PFI: Pitfalls and profits David Kyte September 2007

SOPC 4: From a contractor's perspective Sharon Lee September 2007

Compensation of delay under the new Irish public works contracts Eamonn Conlon November 2007

Time bar clauses and prevention principles: NEC3 Daniel Atkinson December/January 2008

NEC3: Supply contract Michael Rowlinson March 2008 At last, a DBO standard form: FIDIC Gold Richard Ward April 2008

NEC3 in New Zealand: A legal perspective Michael Weatherall June 2008

National contracts: The real cost Martin Purchase July/August 2008

Weather events under JCT and NEC Rob Palles-Clark July/August 2008

The new Construction Contracts Bill Roger Knowles September 2008

ASPIRE: Poverty reduction through infrastructure services Matthew Lynch October 2008

Contracting in the global marketplace Geoffrey Schmitt December/January 2009

PFI-PPP: Big is beautiful... but small can be best value Anthony Rush February 2009

FIDIC red book 1999 v NEC3 Matthew Chalmers March 2009

Approving and removing people under NEC3 Michael Rowlinson March 2009

Highways contracting: Making the most of MACs Chris Webster May 2009

The role of the supervisor under the ECC Michael Rowlinson June 2009

Delivery of the AMP5 challenge: New models and strategies for successful delivery Terry Povall July/August 2009

DISPUTE RESOLUTION

Concilliation: The new trend? Brian Toderdill & Will Gard March 1999

Adjudication: Are we asking the right questions? Tony Elven July/August 1999

The Construction Act and adjudication Andrew Noble May 1999

Confidentiality in arbitration Jeremy Winter November 1999

Is adjudication in danger of falling into disrepute? Rennie Broughton May 2000

Adjudication — Contract drafting and the ICE contract forms Paul Carter October 2000

Adjudication and the ICE conditions Jeremy Winter and John Rushton March 2001

Adjudication v human rights Rennie Broughton June 2001

Dispute resolution – A beginners guide to the current procedures David Carrick and Howard Klein November 2001

Dispute resolution – A beginners guide to the current procedures David Carrick & Howard Klein November 2001

Human rights and natural justice in adjudication Daniel Brawn March 2001

Adjudication update: Were the predictions correct? Roger Knowles April 2002

Set-off against adjudication awards Jeremy Winter June 2002

Adjudication — Please discuss John Price and Nick Henchie July/ August 2002

The impact of court decisions upon adjudication proceedings Alan Williamson September 2002

New adjudicator's guidelines Roger Knowles November 2002 Adjudication in China - Is it the answer? Leonard S C Wong April 2003

Dispute boards for the construction industry David Loosemore April 2003

The A to Z of adjudication — Part I Tom Ellis and Andy Williamson April 2003

Something for nothing! Stephen Tennant May 2003

Rough, ready, uncertain, that's adjudication John B Wilding July/ August 2003

The A to Z of adjudication — Part 2 Tom Ellis and Andy Williamson July/ August 2003

Have the courts been sexing up adjudication? John Rushton September 2003

The A to Z of adjudication — Part 3 Tom Ellis and Andy Williamson September 2003

Adjudication Michael Frisby November 2003

Referring disputes to adjudication (To refer or not to refer? That is the question) Howard Klein December/ January 2004

A dispute or not a dispute? — That is the question Rennie Broughton December/January 2004

Disenchanted with the process David Carrick March 2004

In the scheme of things Steve Williams July/ August 2004

Ascertaining the facts and the law:The use of delay analysis expertise in adjudication Robert Palles-Clark October 2004

Methods of enforcement of an adjudicator's decision Emma Judge and Roger Laville November 2004

The meaning of disputes Geoff Brewer May 2003

It does exactly what it says on the tin... David Carrick May 2005

Adjudicators — From the cradle to the grave Steven Mash June 2005

Dispute resolution boards and the ICE procedure John Papworth February 2006

Housing giraffes in hamster cages — How to make adjudication sound exciting David Carrick March 2006

Arbitration:The facts behind the figures Eugene Lenehan May 2006

Dispute resolution boards and the ICC rules John Papworth May 2006

Structured procedures for structural disputes? Chris Arnold September 2006

How do you know if you have a dispute? Nick Roberts November 2006

Adjudicate or arbitrate in 100 days? John K Daly with Nigel Ribbands and Robert A Sliwinski February 2007

Project mediation: It's like partnering with teeth Simon Tolson and Nicholas Gould February 2007

Adjudication time periods under the HGCRA: Mandatory or directory? That is the question Nigel Ribbands March 2007

Adjudication: 28 days later David Carrick April 2007

Seeing spots: Adjudication in the House of Lords David Carrick June 2007

Mediation in construction disputes: An interim report Nicholas Gould July/August 2007

Construction litigation on the increase Melvyn Smith December/January 2008

Dispute boards — A brave new world? Melanie Tomlin and Richard Shaw March 2008 Dispute resolution in Scotland: Direction of travel? Janey L Milligan May 2008

Adjudication: A second bite at the cherry Rob Palles-Clark December/January 2009

The use of mediation in construction disputes Nicholas Gould June 2009

EDUCATION & TRAINING

Quality assurance in surveying education – Part I:A global model Stig Enemark and Robert Hodgkinson April 2000

Quality assurance in surveying education – Part 2: A case study Stig Enemark and Robert Hodgkinson May 2000

Geospatial engineering education in the 21st century Alan Dodson November 2000

Higher education in crisis John Abbiss April 2001

Contract agencies – The facts Mike Silvester April 2001

Education and training in project management John McLaughlin and Sue Beavil April 2002

Where have all the people gone? The skills shortage Robin Jones June 2002

Maths in civil engineering — What's it all about? Dennis Gedge April 2003

So what's new? Robin Jones April 2003

Questioning the reform — So, what's new? A graduate's response Jennii Chadwick May 2003

Mentoring — A valuable training tool for the construction industry? Ian Skinner May 2003

Professional foul Dennis Gedge May 2003

Moving out from ivory towers — The increase of commercial outreach from UK universities Dr David Barber and Dr Jon Mills February 2004

The survey field course — Doing more than it says on the tin! Matthew J Stott September 2004

Problem based learning (PBL) Conor Cahalane March 2005

Investing in construction inclusion Tony Burnett March 2005 The changing face of hydrographic education in the UK Dr Victor Abbott September 2005

The role of education in surveyors' commitment to society and sustainable development Professor Dr-Ing Holger Magel April 2006

Launch of Corporate Member competencies Steve Jackson July/August 2006

The examiner's perspective on competencies lan Cowling July/August 2006

The impact of competencies on existing training schemes Bill Stevenson July/August 2006

Will I ever be competent? Jennii Chadwick July/August 2006

Ethics and the civil engineering surveyor Dennis Gedge September 2006

Now there's a fine Fellow! Fellowship Attributes Steve Jackson October 2006

Engineering and education the Chinese way Bai Yun October 2006

The light at the end of the tunnel: Surveying Education -Reflections on the past, the present and the future Walter G Robillard December/January 2007

Developments in industry, education and IT behind a new approach to teaching project management Nick Spencer Chapman April 2007

geomatics.org.uk:The past, present and future Tom Bramald, Jon Mills, David Parker and Stuart Edwards April 2007

A skills crisis unfolds John Hannah June 2007

Mentoring — A valuable training tool for the construction industry lan Skinner July/August 2007

A graduate's graft Neil Armstrong September 2007

This could be the start of something big: Engineering Meets Philosophy 2007 Dennis Gedge December/January 2008

13

A waste of potential? A knowledge transfer network (KTN) update Abigail Tomkins March 2008

Stepping ahead with an MBA Nigel Banister April 2008

Changing the game: How to sustain a fast developing profession: Lessons from Kuala Lumpur Chee Hai Teo April 2008

Planning and managing the recruitment and retention of construction surveyors Richard Hucker April 2009

What's in a name? Courses for quantity surveying Robin Jones April 2009

Training for a turnaround Peter Alder April 2009

Painless school volunteering: Give a little of your time and increase career take-up in civil engineering surveying Serena Ronan May 2009

So you think you want to be a relief worker? Eva Modvig June 2009

Surveying a different future? Do professions need to reaffirm the public interest aspect of their role? Gavin Ingham Brooke July/August 2009

Supporting lifelong learning:The education of geospatial engineering professionals Steve Lam July/August 2009

ENERGY

The role of the civil engineer in onshore wind farm development David Taylor June 2006

To 2020 and beyond: The Energy Review Abigail Tomkins September 2006

ENVIRONMENT

Environmental good practice in construction: Back to the boardroom Mike Sutton March 2000

Modifications to an existing activated sludge plant lan Herrod July/August 2000

Draining Somerset Hamish Mitchell April 2001

Foot and mouth disease: Effects on developers and contractors Karen Brooks May 2001

The role of building services in sustainable development Tanya Ross September 2001

Regeneration for a changing climate Trevor Beattie September 2001

Green waterside – Erosion repair techniques Christopher R Nethercoat December/January 2002

When the rains drain mainly to the plain... Stephen Winpenny July/August 2002

The challenge of the multi-jurisdictional deal: The perspective of an environmental consultant Pascal Meyer December/January 2003

Assessing risks to ecosystems A report from the Environment Agency March 2003

PPG25 and flood risk assessment Steve Winpenny September 2003

Climate change Dr John Turnpenny February 2004

Protecting an irreplaceable part of our heritage A report from the Environment Agency October 2004

Don't just listen, act lan Pritchett June 2004

Worth building on and saving —Thames Gateway is both ugly and beautiful lan Abley June 2004 A waste of time? The Committee on Radioactive Waste Management Abigail Tomkins March 2005

Preventing sedimentation in modular stormwater storage systems Mike Faram September 2005

Mapping out environmental risk Richard Pawlyn March 2006

Sustainable paving developments John Howe June 2006

Painfully slow and watered down: But radioactive waste management plans are moving on Abigail Tomkins September 2007

A criminal waste:The organised crime involvement in the muckaway and disposal process Mike Sutton December/January 2008

Greener concrete David Ball March 2008

Don't panic! The Thames Barrier Abigail Tomkins May 2008

How do you get a mouse to cross the road? Biodiversity Surveys Edward Austin September 2008

Waste not, want not: Environmental care in construction Darrell Smart December/January 2009

Suds and total water resource management Chris Williams February 2009

The carbon reduction commitment Stephanie Smith June 2009

FIG

Looking back and looking forward Jim Smith March 1999

ICES elected as a member association of FIG Jim Smith July/ August 1999

Membership of the Internation Federation of Surveyors R Jones October 1999

FIG Report: Enhancing the professional competence of geodetic surveyors in Europe David Rodgers December/January 2001

What is FIG and what does it do? Editorial September 2001

FIG in Washington DC Ed Danson June 2002

XXII FIG international congress, Washington DC Jim Smith, David Rodgers and Derek Smith July/August 2002

FIG Commisson 6: Engineering Surveys Workplan 2002-2006 A report from FIG September 2002

Construction procurement and FIG Commission 10 (springtime in Paris) Andrew Morley March 2003

ICES and FIG:What's the point and is it worth it? David Rodgers March 2003

Surveyors and politics:The need for dialogue Univ Prof Dr-Ing Holger Magel March 2005

The Olympic spirit of surveying: FIG's working week in Athens Alan F Wright July/August 2004

Can membership of FIG be justified? Alan F Wright September 2004

FIG in Jakarta Alan Wright November 2004

From Pharaohs to geoinformatics: A working week in Cairo Jim Smith with Alan Wright, Andrew Morley, Gethin Roberts and Ed Danson May 2005 Politics, people and places: FIG Ghana 2006 Alan Wright and Iain Greenway June 2006

FIG Commission 10: Construction economics and management — An explanation of the present and agenda for the future Andrew W Morley and John MD Bacon June 2006

ICES at the XXIII FIG Congress: Munich 7-13 October 2006 Andrew Morley November 2006

From Baden to Nottingham: FIG Commission 6 activities Dr Gethin Wyn Roberts November 2006

From yesterday to today:The FIG History of Surveying Group Jim Smith and Alan Wright December/January 2007

Coastal areas and land administration: FIG in Costa Rica Alan Wright and Andrew Morley February 2008

FIG working week 2008: Stockholm Alan Wright, Gethin Roberts, Richard Otto, Diane Dumashie and Andrew Morley September 2008

A week in Israel: FIG 2009 Alan F Wright with Gethin Roberts and Richard Hucker July/August 2009

GEOSPATIAL ENGINEERING SURVEYING

Movement monitoring Martin Sheward June 1999

Horizontal control of a temperature adjusted asymmetrical steel core and frame structure Eric Zeeven July/August 2001

Optimal surveying with reflectorless optical total stations Joseph VR Paiva September 2001

Precision aerial survey by helicopter, a solution for transportation engineers Trevor Burton June 2001

Geomatics:Yesterday, today and tomorrow John Manthorpe November 2001

Updating your survey system Shane MacLaughlin November 2002

Keeping up with technology lan Stilgoe April 2003

Speeding up the survey Simon Brightwell May 2003

Boundary issues — New rules for land Nigel Atkinson June 2003

Civil engineering in the picture Philip Round June 2003

Dinosaur attacks Westminster — Many casualties Ed Danson December/January 2004

Standards as standard! Tony Battle December/January 2004

Touching the geoid: A report from the International Institution for the History of Surveying and Measurement Jim Smith March 2004

The impact of technology on surveying: Past, present, and future Daniel Wallace April 2004

Unearthing the past J R Smith May 2004 British Antarctic Survey Linda Capper June 2004

Developments at OS Ireland lain Greenway November 2004

Landslide monitoring in the Rhondda Valley, South Wales Graham Hunter November 2004

Finite element analysis of historical buildings Paulo Lourenço December/January 2005

Surveying the gherkin Keith Hofgartner December/January 2005

Getting to grips with geophysics Nikki Fairs December/January 2005

Diary of a disaster: After the Tsunami David Spackman February 2005

Avoiding the temple of doom Mark Whittingham March 2005

Opportunity and threat: Scottish Geomatics John McCreadie April 2005

Who said surveying was boring..? Working in the Falklands Roger Wilcox April 2005

Speaking the same language — Misconceptions between engineers and geophysicists in terms of what geophysics can do Nikki Fairs May 2005

Struve Arc makes world heritage list The National Land Survey of Finland September 2005

Talking Turkey: A survey of the new Formula One race circuit in Istanbul Jonathan Semple September 2005

First for surveyors and a first for world heritage:The Struve Arc Jim Smith October 2005

Boundary dispute resolution in England and Wales: Surveyors and lawyers working together to resolve problems David J Powell October 2005

It's time to put ourselves back on the map Ed Danson November 2005

Geoinformatics for disaster management: The July 2005 Mumbai floods Professor Madhav N Kulkarni December/January 2006

July/August 2009

It's good to calibrate — with ear defenders Ed Danson February 2006

Tsunami: One year on Report from the European Space Agency February 2006

Climate change hogwash exposed and other useful facts Ed Danson March 2006

75 years young — Happy birthday Survey Review Abigail Tomkins April 2006

TSA: A bright new dawn Rory M Stanbridge May 2006

How do I define area? To use or not to use the RICS Code of Measuring Practice Eleanor Richardson October 2006

Modular construction with dimensional control Tom Greaves December/January 2007

Modelling Glasgow: City of Art Doug Pritchard April 2007

TSA: So far so good Rory Stanbridge September 2007

The treatment of scale factor and use of control stations for setting out where design is based on map coordinates Paul Willson September 2007

Surveying the Chad-Cameroon pipeline lan Allen October 2007

Non-destructive rust detection Peter W Haycock, Roger Lambert and Matthew J Hocking June 2008

Monitoring lock chamber dynamic deformation Bronislav Koska, Tomáš Kremen, Jirí Popisil, Peter Kyrinovic and Jana Halickova November 2008

Cycling + surveying = marketing plan? Emma Fox with Alan Wright April 2009

Bringing stability to landslip valley Andrew Stone June 2009

Mike Hopkins

Setting out a zero-carbon eco house

19

GIS AND MAPPING

Recording Topographic Change in GB (part1) lan Logan February 1999

Recording Topographic Change in GB (part2) lan Logan March 1999

Surveying in a Data Rich Society Peter Dale October 2000

Information Paper 112000 Coordinate Positioning – Ordnance Survey Policy and Strategy Phil Davies May 2000

Millennium Mapping Tristram Carey June 2000

British Geological Survey Develops the Digital Geoscience Spatial Model lan Smith June 2000

The Current Ordnance Survey's Policy and Strategy - A User's Perspective John Grant July/August 2000

Widening Access to Ordnance Survey Data Christopher Roper June 2001

The Surveying and Mapping Revolution and its Impact on Civil Engineering GEB Collaboration July/August 2001

Mapping and Modelling an Environment Chris Shackleton December/ January 2002

Is your GIS flat? Using stereo imagery to create 3D databases Jonathan Shears March 2002

Meeting the master challenge A report from Ordnance Survey June 2002

The map that changed the world? lan Jackson September 2002

US military combines GIS and location technology to create online tracking system Marc Barthello and Alan Beiagi April 2003

Spatial multimedia in the military:Visualising the battlespace never seemed so real Chris Betz May 2003 Digital mapping of the Isle of Man David Kelly June 2003

Living in a 3D world — Anybody for sections? John Strodachs June 2003

Use of GIS in site investigation David Sinclair July/August 2003

Doing GIS right Tony Battle September 2003

The Great Arc — Maps happen because people question Editorial September 2003

Planning for a GIS Tony Battle October 2003

CAD -v- GIS Tony Battle November 2003

Affordable GPS/GIS for utilities Stig Pedersen February 2004

What, no DTM? Dr John Strodachs June 2004

From general purpose CAD to the preferred land survey and civil engineering environment Roger Wilcox June 2004

A short history of mapping Nicola Meads November 2004

How fast is Britain changing? Claire Carter June 2005

Unfolding the history of 1:25,000 mapping in Britain Claire Carter February 2006

Mapping the waterways: How GIS is helping to manage Britain's canals and rivers Mark Plews March 2006

Mapping Ghana's roads Martin Mensa, Dr E Amamoo-Otchere and Benjamin Akuetteh May 2006

Plotting fresh paths:The challenge of mapping rights to ramble Rick Morris June 2006

Mapping London from above Dr Alun Jones June 2006

CAD and GIS: Breaking down the walls Dominic Jukes February 2007

GIS: Changing the way archaeologists analyse and interpret their finds Bob Booth March 2007

Walking objects: A modern surveying technique in the digital mapping production process Ryszard Malarski and Alicia Sadowska June 2007

Miss Teen South Carolina needs you: AGI 2007 Abigail Tomkins November 2007

TAMPing the streets of Stockport: Creating a transport asset management plan Tom Nash, Tony Witham, Richard Barnes and Mark Murray November 2007

Demarcating the boundary between Cameroon and Nigeria – History in the making? Ian Allen December/January 2008

Easter rising: Creating a data-rich 3D digital model of Easter Island Pete Kelsey June 2008

From spatial data infrastructure to the geospatial web:Advancing the SDI vision in a changing technology environment Carl Reed and Mark Reichardt June 2008

Enhancing the digital river network in England and Wales Alexander Coley July/August 2008

Delivering an SDI: Northern Ireland's real life experiences lain Greenway, Trevor Steenson and John Deyermond April 2009

Digital cities: Another world... Doug Eberhard March 2009

Worldmapper:The world as you've never seen it before John Pritchard May 2009

A fresh look at geographical information: The origins of MapTube Richard Milton June 2009

Planning ahead with online location intelligence Daniel Slater June 2009 Using 3D digital data in the planning process Rollo Home July/August 2009

GNSS AND MACHINE CONTROL

Deformation surveys at Cobb Power Station, New Zealand R Dale March 1999

More polar bearings Johnathan Walton April 1999

Machine control systems Harry Glennie May 1999

Guidance and control of construction machines: Geodetic applications Olaf Katowski June 1999

The application of GPS to machine control Neil Ackroyd July/August 1999

3D machine control for the construction industry E Korpershoek September 1999

In-car GPS: An expensive toy, or a real asset? Bernard Hartas September 1999

Using RTK GPS to control construction plant G Roberts and A Dodson November 1999

Road construction: New prospects for automatic vehicle Guidance Christopher Pichot December/January 2000

Satellite positioning: The future Paul Cross December/January 2001

Two dimensional accuracy with help from virtual reference stations (VRS) Rolf Aeberli April 2001

How to survey 2,800km in a month Calum Shone May 2001

Using GPS for surveying drainage features Mark Newling September 2001

GPS for monitoring dams and other large structures Jamal Gledan and Stuart Edwards October 2001

To supply a centimetric precision real-time positioning service Valerie Schouler October 2001

Virtual reference station (VRS) systems for improved efficiencies in port operations Gary Chisholm November 2002 Satellite navigation:Why Galileo? Vidal Ashkenazi February 2003

Augmenting GPS with GLONASS Mark Burbidge June 2003

Taking aim at accuracy in global navigation satellite systems Paula Knee May 2004

Galileo: 18 months to go and counting! Dr David WG Park June 2004

Does VRS mean very rich surveyors? Keith Hofgartner September 2004

Taking dimensional control to the Gulf of Mexico Dave Barnett October 2004

Will it fit? Of course it will! A DC manager's tale Dave Barnett March 2005

BIGF:The UK's continuous GPS data archive Dr David Baker April 2005

GPS and the Hellenic railway Vasileios Paslis with Christos Vagias May 2005

The MONITOR project: Galileo for land and civil engineering surveyors Professor G Manzoni, Professor M Barbarella, Eng G Graglia, Dr M Musmeci, Dr W Roberts, Professor V Ashkenazi May 2006

Keeping track of the yellow jersey A report from the European Space Agency September 2006

Measuring the top of the world: Everest Jiangqi Zhang November 2006

A summary of satellite surveying Alan F Wright FInstCES March 2007

Pseudolites aid harbour navigation A report from the European Space Agency July/August 2007

The English (and Welsh) men who went up a hill but came down a mountain: Using GNSS to assess the height of mountains Abigail Tomkins November 2008

HEALTH AND SAFETY

Grey imports: The HSE view Stuart Bullock April 1999

Rail industry safety project management Chris Thorpe May 1999

Revitalising health and safety Robin Jones April 2002

Falls from height, site transport and slips 'n' trips Andrew East October 2004

Health and safety — A core component of corporate social responsibility Roger Mitchell and Karen Clarke-Whistler July/August 2005

Catch a falling stone: Preventing toppling gravestones Hamish Mitchell June 2006

For what we are about to receive, may we be truly concerned... The CDM Regulations 2007 Robin E Jones April 2007

Increasing level crossing safety with risk modelling Tom Kelleher May 2007

Active fire safety in the Paris A86 tunnel Petteri Saarinen May 2007

CDM 2007: The fallout Robin Jones June 2007

Fire safety regulations: The risks and costs of non-compliance Cate Davey November 2007

CDM 2007: Has it been a success? Jonathan King July/August 2008

There are no Nobel prizes for safety Dennis Gedge March 2009

HIGHWAYS AND ROADS

M60 motorway bridge bearings replaced Adrian Couper June 1999

Development of network management on Greater Manchesher's motorways Graham Kilner October 1999

Repair of infrastructure Adrian Couper May 2000

The value of good car park design Roy-Nield Dumper May 2000

The strategic road network Helen Burt March 2002

Drainage management on the A500:A personal account Martin Peet November 2003

Managing the move to the intelligent highway James Catmur and Dr Peter Bell May 2004

Moving mountains — A brief history of the M62 Howard Stevens and Harry Yeadon June 2004

Keeping Wales moving Jeff Collins May 2005

Keeping the South West's motorways moving: Phase I of the Avon and Somerset tactical information system Steve Sexton December/January 2008

Modelling the A391 St Austell to A30 link road Simon Gardiner December/January 2008

Engineering places for people: The public realm Abigail Tomkins December/January 2009

Fibre reinforced concrete: The origin of the species David Crowther May 2009

HYDROGRAPHICS

Ocean survey (part 1) John Westwood and Barney Parsons September 1999

Ocean survey (part 2) John Westwood and Barney Parsons October 1999

A shallow water surveying system Ted Read September 1999

The edge in the field – River Amber survey report Steve McBennett October 2000

Hydrographics: A competence assurance and assessment scheme for the geomatics industry Ed Danson July/August 2000

Grand Union Canal: Culvert inspection using ROV technology Ted Read September 2000

Dam Monitoring Jim Wright April 2001

Ladybower Reservoir and Dam Millennium Project Paul Jeffrey July/August 2001

Hydrogeology of a nuclear plant Bob Skinner July/August 2002

Facing a titanic dilemma: Monitoring ice fows Robert Freeman July/August 2002

Speed and flexibility in coastline hydrographics Roy Jarman September 2002

Offshore renewables offer survey opportunities Steve Bellew and Richard Cooke September 2002

Swathe echo sounding Pete McKenzie-Midlane September 2002

Hydrography? What's that all about, then? Ed Danson December/January 2003

Hydrography — The times they are a changin' Ed Danson July/August 2003

Recent advances in small boat surveying Ted Read July/August 2003 Integrated Coastal Hydrography David Parker September 2003

From deserts to transits via Normandy Ed Danson July/August 2004

Wide swath sonars for shallow water engineering surveys Dr Tom Hiller July/August 2004

A critical analysis of the height accuracy potential of bathymetric LIDAR applied to coastal areas: An Irish case study Joseph McManus October 2004

Why fuel is so expensive... and other stuff Ed Danson July/August 2005

Up the creek without a paddle A report from Thales with the Hydrographic Departments of Dakar, Senegal, Nouakchott, Mauritania and Mali and the Port Autonome de Bordeaux July/August 2005

Protecting the marsh Adam Hosking July/August 2005

Getting your water wings Mike Wilson July/August 2005

Using airborne lidar bathymetry to map shallow river environments David Millar, John Gerhard and Robert Hilldale September 2005

Offshore decommissioning A paper from the International Marine Contractors Association July/August 2006

International Federation of Hydrographic Societies David Goodfellow July/August 2006

A multi-disciplinary environmental survey of Eddystone Rocks, Plymouth, UK Magnus Axelsson and Steven Dewey July/August 2006

Integrating GIS, ECDIS and web-based marine information systems for maritime navigation and coastal protection Steve YW Lam and Andrew E Leyzack July/August 2007

Creating a sea-change in digital marine mapping Dr Mike Osborne September 2007

Intertidal surveying Steve Popely September 2007

High resolution multibeam surveying for quay wall condition assessment and construction support John Dillon-Leetch May 2008

An introduction to the UK Hydrographic Office: Committed to saving lives Ruth Adams July/August 2008

Land to offshore surveying: Taking the plunge Part I Glyn Hunt September 2008

Waterside mapping using a dynamic laser scanner and phase differencing bathymetric sonar Paul Byham and Dario Conforti October 2008

Land to offshore surveying: Taking the plunge Part 2 Glyn Hunt November 2008

Discovering the Danton: Survey for deepest subsea pipeline finds lost French ship Fugro April 2009

New guidance of the use of GPS in the marine environment Ed Danson July/August 2009

The Flood and Water Management Bill:What does it mean for you? Rachel Tidmarsh July/August 2009

PPVRS: A new era for hydrographic surveying LCDR Rick Brennan, LCDR EJ Van Den Ameele and Peter Canter July/August 2009

INSTITUTION BUSINESS

The Photogrammetry and Remote Sensing Panel Rory Stanbridge March 2002

The ICE/ICES Commercial Management Board Eur Ing John Hitchings May 2002

What's in a name...? John Bacon Oct 2002

The Geospatial Engineering Board's Buried Services Working Group Ed Danson February 2005

Geospatial aspects of tunnelling A report from the Geospatial Engineering Board June 2005

What have we started?! The geospatial future of buried services Martin Cullen June 2005

Chief examiner... Why do we need one? lan Cowling April 2006

ICES Visits the Far East John Bacon and Kevin Blackwell June 2006

Dubai and beyond: A presidential tour Chris Deighton July/August 2007

Sense...The Institution forum in Bath Abigail Tomkins December/January 2008

ICES visits the United Arab Emirates and Sultanate of Oman Steve Jackson December/January 2008

ICES members where are you? The ICE library Mike Chrimes March 2008

A passage to India:The ICES trade delegation visit to Mumbai Paul Brown April 2008

Membership competencies...And not making a meal of them Paul Brown October 2008

The Richard Carter Prize: Dr Jonathan Iliffe, Geospatial engineer of the year 2008 Darrell Smart December/January 2009

Sustainability in Construction: ICES Forum Darrell Smart November 2008

27

INSURANCE AND FINANCE

Errors and omissions... PI policies John Hornsey May 2001

How wide is your cover? Graham Cowie June 2001

An assessment of self assessment Julian Shaw June 2002

Professional indemnity insurers have cause for concern Roger Knowles October 2002

Avoiding the tax trap – 10 useful tips Julian Shaw April 2003

PI premiums on the increase? Lorraine Fleming April 2003

More bang for your buck Lance Rigby April 2003

Liability insurance under scrutiny A report from the Office of Fair Trading July/August 2003

The price of professionalism Steve Radford February 2004

Professional indemnity insurance Andrew Shann March 2004

PII for construction consultants A liability briefing from the Construction Industry Council April 2004

The role of professional indemnity insurance in the management of project risks Ewan A MacGregor April 2004

PII and joint and several liability in the construction industry: The case for reform Adapted from a report by the Association of Consulting Engineers May 2004

Professional indemnity (PI) insurance without the pain David Martin May 2005

More than just a sheet of paper:Why should you buy professional indemnity (PI) insurance? Richard Long April 2006 Engineering insurance Mark Thomsen April 2007

Focusing more on insurance and flood risk Dr Justin B Butler July/August 2007

Proportionate liability campaign explained Nora Fung February 2008

How risk-specific insurance reduces premiums Martin Garton April 2008

Professional indemnity insurance: Good value at last and how to keep it that way Paul Kerner April 2008

INTERVIEWS

Getting to know you – Mike Casebourne interview I Peter Clayfield March 2000

Getting to know you — Mike Casebourne interview 2 Peter Clayfield April 2000

Welcome to the house of Hiscox — The presidential interview Alex Khan November 2000

Vanessa Lawrence: The 21st century e-volution of the Ordnance Survey Part I AH Palmer and JR Smith February 2001

Vanessa Lawrence: The 21st century e-volution of the Ordnance Survey Part 2 AH Palmer and JR Smith March 2001

Around the regions in 365 days: Harry Glennie, ICES President Darrell Smart November 2001

An Interview with Peter Heathershaw Darrell Smart November 2002

The man behind the president (part 1): John B Wilding, ICES president Darrell Smart November 2003

The man behind the president (part 2): John B Wilding, ICES president Darrell Smart December/January 2004

Confronting the present to face the future: Roger Knowles, President, QSi Darrell Smart July/August 2004

Pure malt of a man: Robert Fleming , ICES President Darrell Smart November 2004

The lawnmower man: In conversation with the ICE's youngest ever president, Colin Clinton Darrell Smart February 2005

Bringing home the bacon: John MD Bacon, ICES president Darrell Smart November 2005

On song with Gordon Masterton, ICE President Darrell Smart February 2006 Preparing the next generation: Robin Jones, the new SURCO Director of Training Darrell Smart April 2006

Mister Ed: Ed Danson, ICES President Darrell Smart November 2006

Right on Q: Quentin Leiper, president of the ICE Darrell Smart December/January 2007

The constructor: ICES CEO, Chris Deighton Darrell Smart February 2007

Mister ICES: Kevin Blackwell, ICES retiring chief executive Darrell Smart March 2007

Environmentally friendly: Mike Sutton, ICES President Darrell Smart November 2007

The theodolite is mightier than both pen and sword: CES meets ICE president David Orr Darrell Smart February 2008

The world according to Steve: Part I New ICES president, Steve Jackson Darrell Smart November 2008

The world according to Steve: Part 2 New ICES president, Steve Jackson Darrell Smart December/January 2009

Arrested development: Taking ICES from good to great New ICES CEO, Bill Pryke Darrell Smart February 2009

True Olympian: John Armitt CBE FREng FICE, Chairman of the Olympic Delivery Authority Darrell Smart February 2009

Old mother Thames: Jean Venables, president of the ICE Darrell Smart March 2009

The top 40: Civil Engineering Surveyor's celebratory lunch for past presidents and chairmen Darrell Smart and Abigail Tomkins March 2009

IT AND SOFTWARE

How to choose a human resources system David Johnson September 1999

Downloading from the Internet Richard Dinnick October 1999

Electronic data transfer: A key to future success John Waiting October 1999

Buildng firm foundations for the future Sean Wilson October 1999

CAD models move into the real world Tony Marshall October 1999

Keeping up with technology Neil Carey November 1999

IT in construction best practice John Connaughton June 2000

Devil in the details: The online future for project management Tim Cole November 2000

Application software development for coastal erosion studies and shoreline management plan Roger Wilcox September 2000

An analysis tool in pre-concept design Philip Madeley September 2000

The right tool for the right job Nigel Lorriman June 2001

Developing software for the future John Strodachs June 2001

The business case for network modelling David Fortune November 2001

Software developments with railtrack Ted Stephens November 2001

Can IT be used to increase the benefits of the ECC? Robin Wilkin April 2002

Programming for an asset management plan Dean Edmundson April 2002 Can IT help ease the pressure? Jack Strongitharm September 2006

MAJOR PROJECTS

Runway 2:A Project with Green Credentials Mike Conway June 1999

Making Scandinavia Whole – The Oresund Link Andy Yeoward October 2000

Eden – the Other Dome Hamish Mitchell December/January 2001

The Cathedral of Canals: The Anderton Boat Lift Linda Butterworth March 2002

China's colossus:Three Gorges Dam Madhavi Swamy June 2003

Paradise regained — Constructing The Palm Susan Crabb July/August 2003

Holyrood: It wis'nae me Editorial October 2004

Not on the map: Diana Princess of Wales Memorial Fountain Dennis Gedge December/January 2005

If it wis'nae you, then who the hell was it? A look at the Scottish Parliament building debacle Hamish Mitchell February 2005

Putting the plans on ice:The new Halley research station British Antarctic Survey March 2005

A letter from Antarctica Michael Wright May 2005

Trouble at Bath Spa Hamish Mitchell October 2005

A most wonderful retirement: The Saqqara Geophysical Survey Project Ian J Mathieson November 2005

Providence indeed! The Fox Point hurricane barrier Barry Hiscox November 2005

Refurbishment on a grand scale: A look at the development of the Falkirk Wheel Hamish Mitchell December/January 2006 The Boston central artery/tunnel project aka the 'Big Dig' Part I — History and politics Barry Hiscox May 2006

The Scottish Parliament: For the want of a bolt... Hamish Mitchell May 2006

Allianz Arena München Stadion Abigail Tomkins June 2006

The Big Dig Part 2: Construction (1) Barry Hiscox September 2006

The 'Big Dig' Part 3: Construction(2) Barry Hiscox October 2006

The world's busiest airport: Heathrow Terminal 5 David Rolton and Graham Clarke with Leica Geosystems April 2008

The construction of Eden Glyn Hunt and Olivia Blake December/January 2009

METHOD OF MEASUREMENT FOR HIGHWAY WORKS

Opening Pandora's Box The MMHW Part I — A separate method Hamish Mitchell March 2004

Opening Pandora's Box The MMHW Part 2 — Relationships Hamish Mitchell April 2004

Opening Pandora's Box The MMHW Part 3 — Overseas influence Hamish Mitchell May 2004

Opening Pandora's Box The MMHW Part 4 — Mechanics Hamish Mitchell June 2004

Opening Pandora's Box The MMHW Part 5 — Is it covered? Hamish Mitchell July/August 2004

Opening Pandora's Box The MMHW Part 6 — Have YOU got it covered? Hamish Mitchell September 2004

Opening Pandora's Box The MMHW Part 7 — Ambling through the preambles Hamish Mitchell November 2004

Opening Pandora's Box The MMHW Part 8 — In the beginning Hamish Mitchell December/January 2005

Opening Pandora's Box The MMHW Part 9 — Between a rock and a hard place Hamish Mitchell March 2005

Opening Pandora's Box The MMHW Part 10 — Down the drain Hamish Mitchell April 2005

Opening Pandora's Box The MMHW Part II — Where there's muck, there's brass Hamish Mitchell May 2005

Opening Pandora's Box The MMHW Part 12 — Designed to innovate? Hamish Mitchell June 2005

Opening Pandora's Box The MMHW Part 13 — Closing the box Hamish Mitchell July/August 2005

MILITARY ENGINEERING

Tunnelling Under the Western Front Hamish Mitchell February 1999

Protected by Pill Hamish Mitchell March 1999

God Bless You Mr Bailey Hamish Mitchell April 1999

Nissan Around Hamish Mitchell May 1999

A Harbour Afloat Hamish Mitchell July/August 1999

A Rabbit Warren in Rock Hamish Mitchell September 1999

In Defence of the Coast Hamish Mitchell October 1999

The Scottish Ports Hamish Mitchell November 1999

PLUTO goes to France Hamish Mitchell December/January 2000

Tales of a Military Engineer (by the Ghostbuster) Ross Hunter June 2000

Taking Logistics to Extremes – Supporting the Rebuilding of War-Torn Kosovo Neil Clark November 2000

PHOTOGRAMMETRY & LASER SCANNING

Half Photogrammetry and 3D Modelling Cut Shut down Period Tony Davies May 2000

Orthophoto Data – A Cost Effective Base for Engineering Design and Environmental Assessment Greg Simmons June 2000

Laser scanning revolutionises site survey Nathalie Bartlett June 2000

A new laser guidance system for road pavers Barry Gorham November 2000

The Role of Digital Photogrammetry as a 21st Century Defence Technology Bill Riley & Cameron Japp December/January 2001

Integrated Theodolite-Laser-Camera System lain Shearer, Yi Dong Huang & Steve Ball February 2001

Glamorgan Heritage Coast Cliff Monitoring by Terrestrial Photogrammetry Frank Hobbs & Yi Dong Huang March 2001

The Fair-Weather Surveyor's Dream: Using your Camera to Survey Structures Jon Mills & Guy Pierson April 2001

Digital photogrammetric orthorectification Ned Chisholm February 2002

Terrestrial laser scanning or close range photogrammetry? A practical comparison David Barber and Jon Mills October 2002

Theodoodle-ums et al: Abstracting, using and providing survey data from scan data Alan Barrow October 2002

The place of laser systems within the surveying mix for railway network survey Andrew Bailey October 2002

Building capture by 3D laser scanning — A case study Tony Rogers October 2002

Laser scanning within the petro-chemical industry Peter J Field October 2002 Terrestrial laser scanning or close range photogrammetry? A practical comparison David Barber and Jon Mills October 2002

Can laser scanning and photogrammetry live in harmony? Simon J Barnes December/ January 2003

Using hybrid multi-station adjustment for an integrated camera laser scanner system Andreas Ullrich, Roland Schwarz and Helmut Kager October 2003

Lion Salt Works, Marston — A laser scanning case study Tony Rogers October 2003

2D or not 2D? That is the question: How laser scanning is helping to work three dimensionally Simon J Barnes and Derry Long November 2003

Cost effective topographic information from photogrammetry and NEXTMap GB data Martin Tocher and Dave Horner December/January 2004

Photogrammetry — Still cutting edge technology? Gordon Niven December/January 2004

Keeping up with the times (P&RS) Trevor Burton December/January 2004

The changing face of digital airborne imaging and remote sensing Mike Zywiel December/January 2004

Laser scanning for asset management Bruce Jenkins April 2004

Laser scanning and the law — A US view Bruce Jenkins October 2004

Surveying a grade 1 listed grotto Tony Rogers October 2004

Photogrammetry on the cheap John Walsh December/January 2005

The view from above Nigel Lorriman June 2005

Are you still carrying the risk? The benefits of modern survey technology Alan Barrow October 2005

A moving story Duncan Lees October 2005

Glacier scanning Peter Johnson October 2005

A revolution in laser scanning technology:Waveform digitization Andreas Ullrich, Rainer Reichert and Kate Strange October 2005

Beaumaris Castle Dave Bellwood December/January 2006

Videogrammetric monitoring of membrane roof structuresShih-Yuan Lin and Jon Mills December/January 2006

US Navy improves readiness with 3D laser scanning Tom Greaves March 2006

A brief guide to stockpile volume estimation using aerial photogrammetry Nick Russill September 2006

3D terrestrial laser scanning — An introduction Alan Barrow October 2006

Scanning the key to the kingdom:The Peronne Chateau Romuald Clavé October 2006

Rapid 3D terrestrial mapping from a moving vehicle Martin Redstall October 2006

Asset inspection and mapping using geo-referenced video Gert Riemersma October 2006

Monitoring millimetric ground movements from space: The GMES Terrafirma project Chris Browitt, Alice Walker and Mustafa Aktar December/January 2007

Blast analysis with a laser scanner Jane Ball April 2007

CyroSat 2: Braving the Elements Malcolm Davidson June 2007

Lusi mud volcano, Java: Monitoring the eruption by satellite A report from Spot Image June 2007

Oblique imagery Richard Metcalfe June 2007 Surveying the Globe Theatre Tony Rogers October 2007

Preservation through documentation: The CyArk commitment Justin Barton October 2007

The application of terrestrial LiDAR to volcano monitoring: An example from the Montserrat Volcano Observatory Lee D Jones November 2007

Large format digital cameras in aerial surveys Ralf Wolfgang Schroth December/January 2008

The use of satellite information in flood risk reduction: The Mekong river basin Perapol Begkhuntod May 2008

Mobile 3D laser mapping comes of age Dr Graham Hunter June 2008

Naica in 3D: Laser scanning and post processing the Naica caves Erminio Paolo Canevese, Roberta Tedeschi and Paolo Mora July/August 2008

Laser scanning the historic environment Michael Lobb October 2008

Fulfiling potential: Laser scanning mines Graeme Cowie October 2008

Dam monitoring using combined terrestrial imaging systems João Boavida, Adriano Oliveira, António Berberan December/January 2009

High precision projects using LiDAR and digital imagery Hamish Grierson with Helén Rost May 2009

Re-creating history for Hollywood with laser scanners Stephanie Kirtland May 2009

How mobile laser mapping can support civil engineering projects Mark Senior May 2009

Ground penetrating radar and sub-surface laser scanning — the full 3D picture: A light-hearted view of surveying water and wastewater pipes and manhole chambers Mark Hudson, Jeff Hott and Dr James Hodgson June 2009

PILING AND GROUNDWORKS

The compact displacement pile Ross Miller March 2003

Piling on the pressure John Chick June 2003

How to choose the right pile types AJ Hurst September 2003

Plastic piling — The full process Mark Sims March 2004

Piling and foundation engineering — The way ahead John Patch March 2004

The development and testing of a rotary displacement pile Nick Wharmby September 2004

What the non-specialist needs to know about foundations A report from the Federation of Piling Specialists April 2005

Soft ground stabilisation Andy Russell April 2005

Saving Sveriges Riksdag Paul Wheeler March 2006

Slope engineering and the potential for segmental retaining walls in UK construction David Wright March 2007

A triangular revolution in geogrid technology Cliff Hall June 2007

PROJECT/COMMERCIAL MANAGEMENT

HGC&R and the Dissatisfied Contractor Ian Cowling February 1999

Project Management: From Ark to Aerospace! APM April 1999

Rail Industry Safety Project Management Chris Thorpe May 1999

Are We Ready for Change? Tony Elven July/August 1999

The Hook Initiative FWJ Grist July/August 1999

A Principle for the Allocation of Work H A Bresler September 1999

Partnering: A Question of Trust & Respect Bob Fleming September 1999

The Hook Initiative: An OS Response M De La Haye October 1999

Whole Life Costing Margo Cole February 2000

Budget Management Using EVM lan McGregor April 2000

Project Management – A Preview of the Future David Wallace June 2000

Subcontract Procurement Roy Sinclair June 2000

Bid Procurement: One Contractor's View Jeremy Simm June 2000

What is the Current Role of the Quantity Surveyor? Gary Turner July/August 2000

Estimating: Current Practice Peter Heathershaw September 2000

Project Management - The Pre-Tender Award Phase David Wallace October 2000 Procuring! What Next for the Quantity Surveyor? Chris Thomson November 2000

The Pre-Qualification Phase and the Award of Contract David Wallace December/January 2001

Supporting the Project Manager in Civil Engineering Robert Weir April 2001

Exploring the Private Finance Initiative (PFI): Lessons Learnt to Date and their Implications for Future Projects Simon Grubb May 2001

Building the Business Case for Best Practice Zara Lamont June 2001

New LGTF Toolkit Boosts 'Rethinking Construction' Among LAs Ted Cantle June 2001

Using programmes to manage projects Daniel Atkinson April 2002

Partnering agreements at a subcontract level Alan Williamson April 2002

Partnering — Is it here to stay? Roger Knowles May 2002

Who needs PFI anyway? John Wilding November 2002

Accelerating change – Targeting delivery Gary Turner December/January 2003

The private sector is far better placed to manage PFI Peter A Heathershaw February 2003

A Polish Private Partnership — A study in patience Martin Kennard February 2003

The project plan lan A McGregor March 2003

What you can't measure can hurt you David Hail April 2003

What makes a great manager? Gerard M Blair April 2003

Subcontracts — back to back? Roy Sinclair June 2003

PFI — Meeting the investment challenge Michael Mendelblat September 2003

Projects and programmes, outputs and outcomes Richard Hickman September 2003

Cash is king Roger Knowles September 2003

New forms of collateral warranty Stephen Homer November 2003

Cost control in engineering projects Robert L Langley November 2003

Developing a knowledge based system for the valuation of variations Monty Sutrisna December/ January 2004

Trials and tribulations of the management of change control on major projects Allan Jones February 2004

How to improve construction-based PFI A paper of the CIC Public Sector Procurement Panel February 2004

Establishing control Richard K Faris April 2004

Is centralised procurement set to push PFI bidders out of the marketplace? Michael Grimes and James Lupton April 2004

A short tour of quantity surveying Wong Ken Tek April 2004

Risk management (Student Prize Article) Enzo Labrosciano July/August 2004

Is headhunting the answer? Liz Rickerby July/August 2004

Project management in an ever-changing world Tom Taylor July /August 2004

What does the title 'project manager' mean to the construction industry? Chan Yuan Eng July/ August 2004 Politics and the professions Dennis Gedge March 2005

Change of building regulations in Scotland — Effects on self certification of building structures Dr Jeremy Grant May 2005

The road to success in PPP toll roads: An Asia-Pacific perspective Geoff Roberts and Nicholas Brown September 2005

Managing budget on major projects Bal Barard April 2006

The cost of paving John Howe November 2006

Construction industry in turmoil? The new CIS changes Alan Nolan, Director Employment Tax Group, KPMG LLP March 2007

Process improvement: Mind mapping in engineering consultancy Jeff Parshley April 2007

Basic five: The essentials of survival in project management lan Skinner June 2007

Planning for a sustainable future: The white paper Brian Greenwood and Matthew Allan July/August 2007

Are we going to get a new building control regime? Stuart Sugarman July/August 2007

Carpe diem:The dangers of risk aversion Roderick A Smith October 2007

Planning: A bill too far? Nigel Hewitson December/January 2008

Practical intervention: The CLIP construction management programme Margaret Curtis April 2008

Project management: The five spirits of continuous improvement Neil Allen May 2008

Addressing social issues in public procurement Mike Mousdale October 2008

Guide to best fair payment practices — construction procurement John Verrill November 2008

The cost management of O2 World – Berlin Paul Henderson February 2009

Failure to plan is a plan for failure: Programme management David Goodman February 2009

On time and on budget John Judge April 2009

Construction insolvency Part 1: Have they gone bust? Anton Smith and Andrew Poyner May 2009

Mind the gap: The global funding gap in critical infrastructure Russell Loarridge June 2009

Procurement: The need to get it right Roger Knowles July/August 2009

RAIL

A Warehouse Less Ordinary Annabelle Chalker May 1999

Rail Industry Safety Project Management Chris Thorpe May 1999

 $\pm Million$ Investment at Charing Cross: A Real Team Effort June 1999

Project Overview - The Jubilee Line Extension Harry Glennie May 2000

The Increasing Importance of Project Management within the Railway Industry Donald Heath May 2000

Post Office Underground Railway Roy Sinclair July/August 2001

The Bluebell Railway John G Grant December/January 2002

West Coast Route Modernisation Phase I Steven Johnson, Chris Hinton & John Bacon December/January 2002

Automated 3D control for ballasting works on the Channel Tunnel Rail Link James Douglas May 2004

The allure of shiny steel rails: The future of light rail Abigail Tomkins May 2005

The survey system for positioning high-speed slab track on the CTRL James Douglas, William Archibald and Aleks Stroka September 2005

The Mount Washington steam cog railway Barry Hiscox April 2006

Making it happen: Building and developing a track quality measurement trolley Edward Len November 2006

Trenchless technology: Efficient uitilisation across the UK rail network Russell Fairhurst November 2007

Airdrie to Bathgate rail link Alistair Taylor May 2008 King's Cross underground redevelopment: Phase II manual monitoring Alan Nevard July/August 2008

Gautrain: Africa's biggest PPP Kevin Bradley September 2008

Thameslink realignments and platform extensions Jim Douglas March 2009

On the right tracks? The future of US rail transport: Can 19th century technology be the answer to a 21st century problem? Barry Hiscox April 2009

Inspection on the track: The use of laser scanners to improve safety in rail traffic Gerhard Stasek July/August 2009

THEN AND NOW: HISTORICAL

Tunnel Surveying (Part I) JR Smith February 2000

Tunnel Surveying (Part 2): Samos Tunnel Harry Glennie March 2000

The Heighting of Mount Everest: Then JR Smith April 2000

The Heighting of Everest: Now JR Smith May 2000

Measurement of the Earth Size:Then JR Smith June 2000

Measurement of the Earth Size: Now Alan Dodson July/August 2000

The Pyramids: Then Tarek Agag & Jim Smith September 2000

The Pyramids: Now — Building Your Own Harry Glennie October 2000

Line Measurement: Through the Ages JR Smith November 2000

Distance Measurement: From Invar Tape to GPS Alan Wright December/January 2001

The sextant Leonard Honey May 2006

The stone tramway Hamish Mitchell December/January 2007

Birkhill fireclay mine: Fire down below Hamish Mitchell February 2007

The nocturnal and other early scientific instruments Leonard Honey March 2007

The impact of surveying and setting out technology in construction 1986-2006 Thomas Holmes October 2007

Bath — An appreciation Hamish Mitchell October 2007 From the hills came power: The story of the Scottish hydroelectrics schemes — Part I Hamish Mitchell November 2007

Statens Kartverk:The mapping and surveying museum Vic Smallshire December/January 2008

Eratosthenes' trig pillar Ed Danson September 2008

From the hills came power. The story of the Scottish hydroelectric schemes — Part 2 Hamish Mitchell October 2008

From the hills came power: The story of the Scottish hydroelectric schemes — Part 3 Hamish Mitchell November 2008

From the hills came power. The story of the Scottish hydroelectric schemes — Part 4 Hamish Mitchell March 2009

From the hills came power. The story of the Scottish hydroelectric schemes — Part 5 Hamish Mitchell April 2009

From the hills came power: The story of the Scottish hydroelectric schemes — Part 6 Hamish Mitchell July/August 2009

TRANSPORT GENERAL

Transportation, Limits of Deviation, Expropriation and Compensation in the 21st Century Norman Winbourne December/ January 2002

Turns, Returns and Compliance — Vehicle path simulation in civil engineering projects David Favre March 2002

Transportation and travel in the USA Barry Hiscox February 2007

TUNNELLING

A lifetime of tunnelling: A personal review of tunnelling development David Donaldson February 2003

Dublin Port Access Tunnel — First tunnel breakthrough Mark Hudson May 2003

Survey control of the Dublin Port Tunnel: Part I Ian Allen and Mark Hudson May 2004

Survey control of the Dublin Port Tunnel: Part 2 Ian Allen and Mark Hudson June 2004

Automatic monitoring of CTRL's C250 tunnels Lyndon Preece with Frank Minnagh, James Martin and Stewart Harrison October 2004

Dublin Port Access Tunnel: The final breakthrough Mark Hudson October 2004

DALI — Surely not a tunnel lighting industry standard? Anthony Stubbs February 2005

Holmesdale Tunnel Tony Thomas November 2006

Measuring Malmö Göran Bengtsson and Tahrir Dawody May 2007

Continuous face monitoring in tunnelling Boris Schukoff May 2008

King's Cross underground redevelopment: Phase II manual monitoring Alan Nevard July/August 2008

A new rail link through the Alps: The Gotthard and Ceneri base tunnels Monika Rohrer October 2008

Prehistoric hillfort meets 21st century archaeology and geotechnical engineering Dr Gerry Wait October 2008

Surveying the inaccessible — Combe Down mine stabilisation Kevin Dixon, Anthony Comber, Walter Steele and Rhys Evans December/January 2009

UTILITIES AND PIPELINES

Dover & Folkstone Waste Water Treatment Scheme John Marsh April 1999

Bristol Waste Water Teatment Works John Macartney September 1999

Afan Waste Water Treatment Works Scott Motlet December/January 2000

Pipelines: Are we Investing in our Future? Philip Boon February 2000

Assessing the Structural Condition of Ageing Iron Pipe Systems Dudley Dickson & Peter Ward February 2000

HumberCare – Yorkshire Water's £200m Investment in Hull and the Humber Steve Tindall April 2000

The Economics of Stormwater Control for Building Developments

Chris Williams & Barry Gilbert June 2000

The Valuation of Pipeline Assets in the Utility Industries Hudson Bell July/August 2000

Sewer Jetting - Reducing the Pressure Frank Jones February 2001

Quantum Sewage Systems lan Johnson February 2001

EMSs for Pipeline Contractors Edward Warner February 2001

Pipeline Mapping Paul Shaw and Magdi Tawfik September 2001

Integrated gas management for the Indonesia-Singapore pipeline Andrew Wilde February 2003

Current trends in pipe replacement Steve Vick February 2002

Ground probing radar Mike Bushell February 2002

Integrated gas management for the Indonesia-Singapore pipeline Andrew Wilde February 2003 Live Mains Insertion takes to the high road Steve Vick February 2003

Bacton to Kings Lynn 1200mm pipeline Len Wallis assisted by John Warman November 2003

The use of expanding foam in the gas industry Steve Vick February 2004

What lies beneath? Mike White February 2005

Developments in pipeline utility mapping and access to utility information Rob Williams and Richard Glenister February 2005

Trenchless — myth or need? Peter Crouch February 2005

The all party parliamentary group for underground space (aka APPGUS) Lyndon Preece April 2005

Non ground-breaking technology Richard Lee February 2006

From Genesis to Revelations — A brief historical look at underground detection Mike White February 2006

Understanding the limits and extending the performance of plastics pipeline systems Dr Jeremy Bowman February 2006

All for one and one for all: Underground mapping Abigail Tomkins November 2006

Underground facilities: The need for accurate records in an expanding society GK Allred February 2007

Adopting new technology: Underground detection Pete Bevils February 2007

Going underground: Edinburgh Tram Simon Dean McCarroll and James Lewis February 2007

Trenchless technology pushes ahead in the UK utility market Russell Fairhurst, Chairman, UK Society for Trenchless Technology March 2007

Pipeline tracking lan Clarke May 2007

Can modern survey techniques reduce easement limits near buried services? David Pitt July/August 2007

Milford Haven David Mercer February 2008

The value of geophysics: Considerations in the application of subsurface utility location surveys Jonathan Gillan February 2008

Piping the Palm, Dubai Derek Muckle May 2008

Subsurface utility engineering (SUE): Unearthing an accurate underground James Lewis and Nick Zembillas November 2008

Supplying water in remote Nepal Jonathan Fletcher March 2009