

Proceedings

> RECENTLY PUBLISHED PAPERS

In addition to *Civil Engineering*, *ICE Proceedings* includes 16 specialist journals. Papers and articles published in some of the most recent issues are listed here. Summaries of all these and other papers and articles published in the past three years can be read free at www.ice.org.uk/journals. ICE members can download any 15 papers published in 2008 for £25 from www.iceknowledge.com

Bridge Engineering

161, No. BE4, December 2008, 159–210

The landmark Metsovitikos Bridge, Greece

K. Ahmadi-Kashani

Performance-based seismic design of a continuous bridge

G. Ghosh, Y. Singh and S. K. Thakkar

Sustainable bridge construction through innovative advances

A. E. Long, P. A. M. Basheer, S. E. Taylor, B. G. I. Rankin and J. Kirkpatrick

Wireless structural health monitoring at the Humber Bridge UK

N. A. Hoult, P. R. A. Fidler, I. J. Wassell, P. G. Hill and C. R. Middleton

The 4000 tonne lift of Stonecutters Bridge steel back-spans, H.K.

G. Morgenthal, R. Sham and A. Schwarz



Construction Materials

162, No. CMI, February 2009, 1–48

The engineering properties of Victorian structural wrought iron

S. S. J. Moy, H. W. J. Clarke and S. R. Bright

Deformation of NHL3.5 and CL90/PC hybrid mortars

R. J. Ball, A. El-Turki, W. J. Allen, J. Nicholson and G. C. Allen

Hardening mortars made from cement, rice husk ash and lime

O. Cizer, K. Van Balen, D. Van Gemert and J. Elsen

Selecting sustainable materials for ceilings in Sri Lanka

U. G. Yasantha Abeyundara and S. Babel



Energy

160, No. EN2, May 2008, 47–98

Energy saving through building insulation and airtightness

N. Prescott

Shallow ground energy systems

O. Boënnec

Development of the Kirklees renewable energy toolkit, UK

K. Deacon

Integrated appraisal of micro-generators: methods and applications

S. R. Allen, G. P. Hammond, H. A. Harajli, C. I. Jones, M. C. McManus and A. B. Winnett

Embodied energy and carbon in construction materials

G. P. Hammond and C. I. Jones



Engineering and Computational Mechanics

161, No. ECM4, December 2008, 155–199

Finding displacements from measured strains in 2D frames

N. Metje, G. H. Little, A. G. Kamtekar and D. N. Chapman

Effects of defects on helical two-stage gear system behaviour

Y. Driss, L. Walha, T. Fakhfakh and M. Haddar



Modelling enteric bacteria level in coastal and estuarine waters

L. Yang, B. Lin and R. A. Falconer

Extended finite-element analysis of fractures in concrete

X.-J. Fang, F. Jin and Q.-D. Yangon

Engineering History and Heritage

162, No. EHH1, February 2009, 1–72

The establishment of plastic design in the UK

J. Heyman

Early dams

H. Fahlbusch

Introduction of steel columns in US buildings, 1862–1920

S. E. Wermiel

Case studies in engineering training and professional education

R. A. Buchanan, D. K. Brown, P. R. Stokes, P. R. Morris and K. Beales

The effect of bridge failures on UK technical policy and practice

R. J. Bridle and F. A. Sims

Telford in Ireland: work, opinions and influence

R. C. Cox



Engineering Sustainability

161, No. ES4, December 2008, 195–237

The Cockermouth School Eco Centre, Cumbria, UK

S. W. Pollington

Developing unfired stabilised building materials in the UK

J. E. Oti, J. M. Kinuthia and J. Bai

Impact of participants' values on construction sustainability

R. Fellows and A. Liu

Models for teaching sustainable development to children

M. Crapper, R. Donald, D. Hill, A. Hall and W. French



Geotechnical Engineering

161, No. GE6, December 2008, 279–339

Effect of core composition on seismic stability of earth dams

A. Shafiee

A statistical guide for dynamic-penetration test interpretation

V. Navarro, A. Yustres, J. Sánchez and M. Candel

Construction of a deep shaft for Crossrail

A. M. McNamara, T. O. L. Roberts, P. R. J. Morrison and G. Holmes

Non-linear and linear models in design of retaining walls

A. Grammatikopoulou, H. D. St John and D. M. Potts

Stochastic response of underground structures

K. Hacıefendio lu and A. Bayraktar



Ground Improvement

162, No. GI1, February 2009, 1–56

Ground improvement techniques for railway embankments

A. Arulrajah, A. Abdullah, M. W. Bo and A. Bouazza



Validity of Menard relation in dynamic compaction operations

A. Ghassemi, A. Pak and H. Shahir

Influence of salts on strength of cement-treated clays

C. Modmoltin and P. Voottipreux

Small-scale micropiles to control heave on expansive clays

O. K. Nusier, A. S. Alawneh and B. M. Abdullati

Management, Procurement and Law

161, No. MPL4, November 2008, 137–189

Private finance for the delivery of school projects in England

B. Aritua, N. J. Smith and R. Athiyo

Public-private delivery of urban water services in Africa

S. Kayaga

Legislative frameworks for port concessions in Greece

P. Patsiadas and D. C. Angelides

Role of export credit agencies in PFI/PPP projects

S. Wanuziri and M. Jiang

PPP in urban water: lessons from Yerevan, Armenia

J. Mugabi and P. Marin

Political risk in light rail transit PPP projects

N. J. Smith and M. Gannon



Maritime Engineering

161, No. MA4, December 2008, 143–186

Assessing breaching risk in coastal gravel barriers

L. Hartley and N. Pontee

Extension to the port of Gijón, Spain

J. L. Diaz Rato, J. Moyano

Retamero and M. de Miguel Riestra

Large breakwaters in deep water in northern Spain

P. Molinero Guillén



Municipal Engineer

161, No. ME4, December 2008, 207–273

Global issues in public works and municipal engineering

C. Champion, M. Robinson and N. Buchan

Women in water supply, sanitation and hygiene programmes

J. Fisher

Sewerage: a return to basics to benefit the poor

D. Mara and J. Broome

Strategies for improved water supply in India and Pakistan

K. Tayler

Better practice in supplying water to the poor in global PPPs

J. Jacobs and R. Franceys

Water supply and sanitation in Zambia: reform and regulation

C. K. Mbilima

Child's play and recreation in Dhaka City, Bangladesh

A. Ahmed and M. Sohail



Structures and Buildings

161, No. SB6, December 2008, 301–360

Shear response of elliptical hollow sections

L. Gardner, T. M. Chan and M. A. Wade

Modelling of bonded post-tensioned concrete slabs in fire

E. A. M. Ellobody and C. G. Bailey

Simplified fire design for composite hollow-section columns

J. M. Aribert, Ch. Renaud and B. Zhao

Column–joint assembly in RC columns strengthened by steel caging

J. M. Adam, S. Ivorra, F. J. Pallares, E. Jiménez and P. A. Calderón

Continuous concrete beams reinforced with CFRP bars

A. F. Ashour and M. N. Habeeb



A laboratory study on cold-mix, cold-lay emulsion mixtures

I. N. A. Thanaya, S. E. Zoorob and J. P. Forth

Urban Design and Planning

161, No. DP4, December 2008, 145–205

The absorbent city: urban form and flood risk management

I. White

Achieving urban resilience: understanding and tackling disasters from a local perspective

C. Wamsler

Urban resilience and national security: the role for planning

J. Coaffee and P. O'Hare

Building assessment during disaster response and recovery

F. Peña-Mora, Z. Aziz, A. Y. Chen, A. Plans and S. Foltz

Relocalising disaster risk reduction for urban resilience

I. Kelman



Transport

162, No. TRI, February 2009, 1–62

Alternative decision-aid tool for pavement management

A. J. L. Ferreira, S. C. N. Meneses and F. A. A. Vicente

Frictional properties of asphalt concrete mixes

A. Ongel, Q. Lu and J. Harvey

Rationality of a non-lane-based car-following theory

B. Gunay

Paying for parking: improving stated-preference surveys

L. Dell'Olio, A. Ibeas and J. L. Moura



Waste and Resource Management

161, No. WR4, November 2008, 135–180

The application of LDAT to the HPM2 challenge

J. K. White

Landfill modelling challenge: HBM model predictions

J. McDougall

Review of responses to a landfill modelling challenge

R. P. Beaven

Assessment of the anaerobic biodegradation potential of MSW

L. K. Ivanova, D. J. Richards and D. J. Smallman



Water Management

162, No. WMI, February 2009, 1–56

Modelling effects of mangroves on tsunamis

F. Y. Teo, R. A. Falconer and B. Lin

Two-dimensional flood modelling of the Damansara River

S. P. Lim

Modelling urban river catchment: a case study in Malaysia

C. S. Leow, R. Abdullah, N. A. Zakaria, A. Ab. Ghani and C. K. Kang

Water quality monitoring of Maong River, Malaysia

S. Said, Y. S. Mah and S. H. Lai

Computation of afflux ratings and water surface profiles

P. A. Mantz and J. R. Benn

Flow discharge modeling in open canals by fuzzy logic

Z. F. Toprak



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Call for papers.



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In response to the dynamic construction market in the Middle East, and in recognition of the unique conditions prevalent in the region, a special issue of *Civil Engineering* is planned for November 2009. Papers are sought to provide a broader understanding of construction issues, as well as case histories demonstrating best practice and innovation in response to the specific challenges in the region.

General issues 2009

Material is also required for the normal issues of the journal in 2009/10 which are likely to be of general interest to the majority of civil engineers and meet the journal's aims of providing a source of reference material, promoting best practice and broadening civil engineers' knowledge. Project reports and case studies will again be very welcome.

Articles should be around 750 words long and papers around 2000–3500 words long. Contributions can be submitted online at www.civilengineering-ice.com, where more detailed author guidelines are also available. All contributions received will be assessed on merit, regardless of author status or experience.

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