

MONITOR:ICE PROCEEDINGS

ICE Proceedings

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Bridge Engineering

Stonecutters Bridge, Hong Kong
165, No. BE1, March 2012, 1–78

Stonecutters Bridge, Hong Kong: design competition

N. Hussain, K. Falbe-Hansen, N. J. Gimsing and C. K. P. Wong

Stonecutters Bridge, Hong Kong: the reference scheme

S. Withycombe, I. Firth and P. O. Jensen

Stonecutters Bridge, Hong Kong: ground investigations and seismic criteria

P. A. Thompson and J. Pappin

Stonecutters Bridge: design of foundations

P. A. Thompson, D. Lee, S. Kite and R. D. Colwill

Stonecutters Bridge, Hong Kong: design of steel deck

L. Hauge, M. Carter and T. Vejrum

Stonecutters Bridge, Hong Kong: stay cables and geometry control

S. Kite, N. Yeung and T. Vejrum

Stonecutters Bridge, Hong Kong: main span erection

Y. Ishikura, K. Kuwabara, R. Sham and R. O'Grady



Civil Engineering Special Issue

More for less

165, No. CES1, May 2012, 1–64

Multi-objective design optimisation: getting more for less

R. Evins, S. Conrad Joyce, P. Pointer, S. Sharma, R. Vaidyanathan and C. Williams

Using value networks to boost construction performance

D. Meggitt, C. Sarri and L. Evans

Publishing construction contracts to improve efficiency and governance

C. Kenny

Less is more

J. Holland

Time for the UK construction industry to become Lean

A. Sadreddini

Introducing Lean into the UK Highways Agency's supply chain

C. Chen, S. Housley, P. Sprague and P. Goodlad

Paying less for pavements

E. Barker, A. Hunter and R. Sinhal

Collaborative planning on the Borough viaduct project, London

T. Ryall, S. Fitzpatrick, R. Parsloe and J. Morris

Achieving more for less at Canary Wharf Crossrail station, London

H. Yeow, D. Nicholson, C. Bryant and M. Westbury

Gainsborough flood defence scheme: improving project delivery by reusing existing assets

K. Ford, M. Dineley and A. Zilles



Construction Materials

165, No. CM2, April 2012, 63–122

Sulfate resistance of mortars containing silica fume and pozzolan

F. Canpolat

Incorporation of chromium-tanned leather residue in mortars

J. J. de Oliveira Andrade and V. Mattje

Strength properties of self-compacting mortar mixed with GGBFS

S. K. Lim, T. C. Ling and M. W. Hussin

Flexural fatigue strength of hybrid fibrous concrete beams

S. P. Singh, A. P. Singh and V. Bajaj

Lightweight concrete incorporating volcanic materials

K. M. A. Hossain



Energy

Carbon dioxide capture and geological storage

165, No. EN2, May 2012, 47–108

Monitoring carbon dioxide storage using passive seismic techniques

J. P. Verdon, J.-M. Kendall and D. J. White

Monitoring carbon dioxide storage using fit-for-purpose technologies

S. Hannis

The challenges of estimating and managing risk across the carbon dioxide capture and geological storage lifecycle

J. P. Kimmance and D. A. Rogers

The development of carbon dioxide capture legislation in the UK

E. L. Agus and K. Foy

Carbon dioxide capture retrofit on natural gas power plants: designing for technology uncertainty

M. Lucquiaud and J. Gibbins

Can carbon dioxide storage site qualification help meet a 2015 deadline?

M. Carpenter and L. Braute



Engineering and Computational Mechanics

165, No. EM1, March 2012, 1–78

Fluid simulation: combined Lagrangian and multi-grid approach

D. Ophir, A. Yahalom, G. A. Pinhasi and M. Kopylenko

Separation of structure and ripples on sand mounds using Hermite functions

P. H. Taylor, J. Huang, M. I. García-Hermosa, P. K. Stansby, A. G. L. Borthwick and R. L. Soulsby

Discrete particle model for morphologic and mechanical study

D. del Olmo, A. Serrano and C. Olalla

Determination of dynamic gradient elasticity length scales

G. Carta, T. Bennett and H. Askes

Liquefied natural gas tank analysis: cryogenic temperatures and seismic loading

M. N. T. Gillard, M. J. Leslie, D. J. Vaughan and W. A. Spencer

Safety format in non-linear analysis of concrete structures

P. A. Jackson

Fuzzy genetic algorithm for steel construction optimisation

G. Cirovic and S. Mitrovic



Engineering History and Heritage

165, No. EH2, May 2012, 63–124

Scamilli impares

J. Heyman

The career of engineer Vladimir Bodiarsky

C. Frapier

The Railway Heritage Trust's work with listed structures

A. J. Savage

Centuries old aflaj irrigation system in Oman

R. Chakraborty

The evolution of large-truss road bridges in NSW, Australia

R. Glencross-Grant



Engineering Sustainability

Future-proofing urban regeneration
165, No. ES1, March 2012, 1–109

The urban futures methodology applied to urban regeneration

C. D. F. Rogers, D. R. Lombardi, J. M. Leach and R. F. D. Cooper

A futures-based analysis for urban air quality remediation

T. A. M. Pugh, A. R. MacKenzie, G. Davies, J. D. Whyatt, M. Barnes and C. N. Hewitt

Urban futures and the code for sustainable homes

D. V. L. Hunt, D. R. Lombardi, R. Farmani, I. Jefferson, F. A. Memon, D. Butler and C. D. F. Rogers

Resilient ecological solutions for urban regeneration

J. D. Hale and J. Sadler

Testing energy efficiency in urban regeneration

S. Caputo, M. Caserio, R. Coles, L. Jankovic and M. R. Gaterell

High dwelling density as sustainability solution in Lancaster

C. T. Boyko and R. Cooper

Scenario-based sustainable water management and urban regeneration

R. Farmani, D. Butler, D. V. L. Hunt, F. A. Memon, H. Abdelmeguid, S. Ward and C. D. F. Rogers

Social infrastructure and sustainable urban communities

J. Brown and A. Barber



Forensic Engineering

165, No. FE2, May 2012, 55–108

Investigation of a collapsed scaffold structure

J. Andersen

A Falkland Island roof failure

T. McGregor

Failure of a corroded pile closed Larivot bridge and divided French Guiana

B. Godart, J.-M. Lacombe, M. Le François and K. B. Amer

Forensic engineering and collapse databases

D. Breyse



Geotechnical Engineering

165, No. GE2, April 2012, 63–124

Embodied energy evaluation for sections of the UK Channel Tunnel rail link

C. Chau, K. Soga, N. O'Riordan and D. Nicholson

Assessment of soft clay ground improvement from SPTU results

G. Cai, S. Liu and A. J. Puppala

Unconfined shear strength of compacted unsaturated plastic soils

F. A. M. Marinho and O. M. Oliveira

Laboratory and in situ studies on a compacted clayey silt fill

M. S. S. Almeida, M. G. Rios Filho, M. M. Futai and M. Riccio Filho



Ground Improvement

165, No. GI2, May 2012, 63–124

Pore pressure during stone column installation

J. Castro and C. Sagasetta

Soft soil foundation improved by vacuum and surcharge loading

B. Indraratna, C. Rujikiatkamjorn, R. Kelly and H. Buys



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Ground improvements in Tokyo/Haneda Airport expansion project

M. Kitazume
Behaviour of clay reinforced by sand compaction pile with smear

A. Juneja and B. A. Mir

Ground improvement: principles and applications in Asia

V. R. Raju and J. Daramalinggam

Management, Procurement and Law

165, No. MPL2, May 2012, 79–140

Mentoring in the oil and gas industry

R. Bell

Bridging public works project performance gaps in South Africa

F. Emuze and J. J. Smallwood

Developmental intervention impact on project environments

R. Hindle and B. Strasheim

SAICE's report cards on the state of infrastructure

S. Amod, K. Wall and C. Rust

Strategies to address skills shortages in South African civil engineering

F. Fang and R. A. Aboushiwa

Resolving construction disputes in Dubai

B. Nazlim

Maritime Engineering

165, No. MA1, March 2012, 1–46

Blackpool central area coast protection scheme, UK

L. Cunningham, G. Robertshaw and M. Pomfret

Predicting wave-induced scour around a circular pile

A. Guven, H. Md Azamathulla and M. Gunal

Municipal Engineer

165, No. ME1, March 2012, 1–62

Domestic food waste – the carbon and financial costs of the options

T. D. Evans

Water smart parks

G. R. Eves

Spatial performance to locate city fire stations

H.-S. Chang, C.-M. Lai and H.-L. Hwang

Culture in sustainable infrastructure: the polycentric cultural framework model

A. Omoregie

Sustainable development – the East Bali poverty project

J. S. Younger, D. J. Booth and K. Kurniawan

Structures and Buildings

165, No. SB4, April 2012, 163–215

Shear behaviour of reinforced concrete pile caps under full-width loading

J. Cao and A. G. Bloodworth

An experimental investigation of the behaviour of EBFs

S. Maalek, M. H. Adibrad and Y. Moslehi

Seismic damage assessment of reinforced concrete frames with shear wall according to load pattern

Q. Yahyazadeh Ahmadi and J. Vaseghi Amiri

Finite-element simulation of a beam-to-column connection with circle web opening

C. A. Apostolopoulos, G. A. Moraitis and V. B. Watiti

Transport

165, No. TR2, May 2012, 79–155

Tram priority at signal-controlled junctions

D. Sermpis, P. Papadakos and K. Fousekis

Traffic uncertainty in toll motorway concessions in Spain

M. A. Baeza and J. M. Vassallo

Operating speed models for two-lane rural highways

M. Castro, J. F. Sánchez and J. A. Sánchez

High-speed rail modal split on routes with high air traffic density

A. López Pita, P. F. Teixeira and P. A. Ferreira

Sampling strategy for pavement distress survey: a case study

P. Rajbongshi, K. Kachru and A. Das

Portuguese unbound granular materials characterisation using cyclic triaxial tests

R. P. Conceição Luzia, L. G. de Picado Santos, J. M. Coelho das Neves and D. Correia Gardete

Lateral resistance of railway track with frictional sleepers

J. Ali Zakeri, B. Mirfattahi and M. Fakhari

Urban Design and Planning

165, No. DP1, March 2012, 1–62

Historic landscape characterisation in the urban domain

S. Dobson

Compositional and urban form effects on centres in Greater London

A. Chiaradia, B. Hillier, C. Schwander and M. Wedderburn

Visual privacy in residential areas: amendment of building regulations

A. N. Tomah

Urbanwords

R. Cowan

Waste and Resource Management

165, No. WR2, May 2012, 55–108

Reusing trench excavation materials as on-site backfill

A. Carrera, A. Dawson, J. Grenfell, P. Windsor and J. Proctor

Potential use of UK sewage sludge ash in cement-based concrete

J. E. Halliday, M. R. Jones, T. D. Dyer, R. K. Dhir

Sewage sludge quality from small wastewater treatment plants

C. B. Rizzardini, M. Contin, M. de Nobili and D. Goi

Delivering the Esholt Wastewater Treatment Works scheme

A. Marsden, M. Manidaki and S. Mort

Water Management

165, No. WM4, April 2012, 191–244

Non-capacity or capacity model for fluvial sediment transport

Z. Cao, Z. Li, G. Pender and P. Hu

Flow structure around a row of vertical rods in a floodplain

A. Keshavarzi and F. S. Eshahani

Comprehensive analysis of flooding in unmanaged catchments

G. H. Akbari and R. Barati

New correction factors for friction losses in pipelines

M. Soleimani and F. Mirzaei

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