

VOLUME 34

NUMBER 5 / NUMÉRO 5

MAY / MAI

2007

An NRC Research Press
JOURNAL
Une REVUE des
Presses scientifiques du CNRC

Canadian Journal of
CIVIL ENGINEERING

cjce.nrc.ca



Revue canadienne de

GÉNIE CIVIL

rcgc.cnrc.ca



National Research
Council Canada

Conseil national
de recherches Canada

NRC-CNRC

Y. Hu and D.W. Hubble	608-621	Factors contributing to the failure of asbestos cement water mains
Yail J. Kim, Mark F. Green, and R. Gordon Wight	664-677	Flexural behaviour of reinforced or prestressed concrete beams including strengthening with prestressed carbon fibre reinforced polymer sheets: application of a fracture mechanics approach
	DISCUSSIONS	DISCUSSIONS
Richard Redwood and Patrick Paultre	686-687	Discussion of "Making use of brace overstrength to improve the seismic response of multistorey split-X concentrically braced steel frames"
Martin Lacerte and Robert Tremblay	688-689	Reply to the discussion by Richard Redwood and Patrick Paultre on "Making use of brace overstrength to improve the seismic response of multistorey split-X concentrically braced steel frames"
Transportation engineering		Ingénierie des transports
	ARTICLE	ARTICLE
Liping Fu, Jeffrey Henderson, and Shuo Li	651-663	Locating changeable message signs for advanced traffic information and management systems
Civil engineering history		Histoire du génie civil
	ARTICLE	ARTICLE
Robert W. Passfield	637-650	Philip Louis Pratley (1884-1958): bridge design engineer



National Research
Council Canada
Ottawa, Canada
K1A 0R6

Conseil national
de recherches Canada
Ottawa, Canada
K1A 0R6

Postage paid at Ottawa
Publications mail
Registration No. 40062591

Port payé à Ottawa
Poste-publication
Enregistrement n° 40062591

USPS periodical postage paid at Plattsburgh, NY 12901, USA

Canadian Journal of Civil Engineering

Volume 34, Number 5, May 2007

Revue canadienne de génie civil

Volume 34, numéro 5, mai 2007

Construction engineering

ARTICLE

Murat Gunduz and Burak Simsek 622-630

Engineering materials

ARTICLES

J.S. Chen, P.Y. Chu, Y.Y. Lin,
and K.Y. Lin 581-588

K. Kandil, A.O. Abd El Halim, Y. Hassan,
and A. Mostafa 589-597

NOTE

D.K. Panesar and S.E. Chidiac 682-685

Environmental engineering

NOTE

Bruce G. Wilson, Betsy J. Agar,
Brian W. Baetz, and Anne Winning 678-681

Hydrotechnical engineering

ARTICLE

Frédéric Messier, François Anctil
et Berthier Beaulieu 631-636

Structural engineering

ARTICLES

Sreekanta Das, J.J. Roger Cheng,
and David W. Murray 598-607

Ingénierie de la construction

ARTICLE

A strategic safety management framework through balanced scorecard and quality function deployment

Matériaux d'ingénierie

ARTICLES

Characterization of binder and mix properties to detect reclaimed asphalt pavement content in bituminous mixtures

Investigation of the effects of different polymer-modified asphalt cements on asphalt mixes at low temperature

NOTE

Ultrasonic pulse velocity for determining the early age properties of dry-cast concrete containing ground granulated blast-furnace slag

Ingénierie de l'environnement

NOTE

Practical applications for global positioning system data from solid waste collection vehicles

Hydraulique

ARTICLE

Échelonnage de la crue journalière moyenne pour des bassins versants de superficie entre 10 et 360 km² au Québec

Ingénierie des structures

ARTICLES

Behavior of wrinkled steel pipelines subjected to cyclic axial loadings

Continued on inside back cover / Suite au verso

Front cover: Wrinkled steel pipe fractures: sample obtained from the field (*left*) and from a laboratory test (*right*) (see Das et al., in this issue, pp. 598-607).

Page couverture : Fractures dans la région plissée d'un échantillon de pipelines d'acier obtenu sur le terrain (*à gauche*) et en laboratoire (*à droite*). Voir Das et coll., ce numéro, p. 598-607.

