



EDITOR-IN-CHIEF
Professor Della M. Roy
102 Materials Research Laboratory
The Pennsylvania State University
University Park, PA 16802, USA
Tel: 814-865-1137, Fax: 814-863-7040
E-Mail: cemcon@psu.edu
MANAGING EDITOR: Kathleen S. Maurant

HONORARY EDITORIAL BOARD

Dr. G.M. Idorn
Tovesvej 14B
2850 Naerum
Denmark

Prof. H.F.W. Taylor*
Maundry Bank
Lake Road, Coniston
Cumbria LA21 8EW
United Kingdom

Prof. Hiroshi Uchikawa
Kanazawa Institute of Technology
7-1 Ohgigaoka, Nonoichi
Ishikawa 921-8501, Japan

BOARD OF EDITORS

Dr. Carmen Andrade
Instituto "Eduardo Torroja" of Construction Sciences
Serrano Galvache, S/n 28033 Madrid
Apdo. 19002.28080 Madrid, Spain

Prof. Zdeněk P. Bažant
Department of Civil Engineering
Northwestern University
Evanston IL 60208, USA

Dr. James Beaudoin
National Research Council
Institute for Research in IRC Construction
Ottawa, Ontario K1A OR6, Canada

Prof. P.W. Brown
136 MRL
The Pennsylvania State University
University Park, PA 16802, USA

Dr. A.K. Chatterjee
The Associated Cement Companies Ltd.
Cement House
121 Maharshi Karve Road
Mumbai 400 020, India

Prof. Mario Collepardi
Department of Applied Physical Chemistry
Via Mancinelli 7
20131 Milano, Italy

Prof. Masaki Daimon
Department of Inorganic Materials
Tokyo Institute of Technology
Ookayama, Meguro-ku
Tokyo 152, Japan

Prof. David Darwin
University of Kansas
Structural Engineering & Materials Lab
Department of Civil and Environ. Engineering
2006 Learned Hall
Lawrence, KS 66045–7609, USA

Prof. Sidney Diamond
School of Civil Engineering
Purdue University
Lafayette IN 47907, USA

Dr. Edward Garboczi
National Institute of Standards & Technology
100 Bureau Drive, Stop 8621
Gaithersburg, MD 20899-8621, USA

Dr. Ellis Gartner
Laboratoire Central de Recherche, Lafarge
BP 15, 38291 St. Quentin Fallavier
France

Prof. F.P. Glasser
Dept. of Chemistry
University of Aberdeen
Meston Walk
Old Aberdeen AB24 3UE, UK

Prof. Christopher Hall
The University of Edinburgh
Centre for Materials Science and Engineering
Edinburgh, EH9 3JL, UK

Dr. Shunsuke Hanehara
Technology Management Group
Central Research Laboratory
Taiheiyō Cement Corporation
2-4-2, Ohsaku, Sakura, Chiba, 285-8655, Japan

Prof. Carolyn C. Hansson
Dept. of Mechanical Engineering
University of Waterloo
Waterloo, Ontario N2L 3G1, Canada

Prof. David W.S. Ho
Dept. of Civil Engineering
No. 1 Engineering Drive 2
Singapore 117576

Prof. R. Douglas Hooton
Dept. of Civil Engineering
University of Toronto
Toronto, Ontario M5S 1A4, Canada

Dr. Inam Jawed
Transportation Research Board
National Research Council
2101 Constitution Avenue, N.W.
Washington, DC 20418, USA

Prof. Hamlin M. Jennings
Northwestern University
Departments of Civil and Environmental Engineering
and Materials Science and Engineering
Evanston, IL 60208, USA

Prof. Dr. Friedrich W. Locher
Termühlenweg 6
D-40885 Ratingen, Germany

Dr. A.J. Majumdar
Building Research Establishment
Department of the Environment
Garston, Watford WD2 7JR, England

Prof. Franco Massazza
Italcementi S.p.A., Via G. Camozzi 124
124100 Bergamo, Italy

Prof. Sidney Mindess
British Columbia University
Department of Civil Engineering
Vancouver BC V6T 1Z2, Canada

Prof. Paulo J.M. Monteiro
Dept. of Civil & Environmental Engineering
University of California at Berkeley
725 Davis Hall
Berkeley, CA 94720, USA

Prof. M. Moranville
ENS Cachan, Genie Civil Dept.
61av President Wilson
Cachan 94230, France

Dr. Graeme K. Moir
East View, Crutches
Lane, Higham, Nr. Rochester
Kent ME2 3UH, U.K.

Prof. A.M. Neville
24 Gun Wharf, 130 Wapping High Street
London E1W 2NH, England

Prof. Lars-Olof Nilsson
Department of Building Materials Research
Chalmers University of Technology
Gothenburg, SE-41296, Sweden

Prof. Ivan Odler
16 Olde Village Drive
Winchester, MA 01890, USA

Prof. Jaime Planas
Dep. de Ciencia de Materiales
Universidad Politécnica de Madrid
ETS de Ingenieros de Caminos
Profesor Aranguen s/n
28040 Madrid, Spain

Prof. Dr. H.-Wolf Reinhardt
Universität Stuttgart
Institut für Werkstoffe im Bauwesen
Pfaffenwaldring 4
D-70550 Stuttgart, Germany

Dr. Ian G. Richardson
University of Leeds
School of Civil Engineering
Leeds, LS2 9JT, UK

Dr. Karen L. Scrivener
Laboratory of Construction Materials
Swiss Federal Institute of Technology (EPFL)
Ecublens
CH-1015 Lausanne, Switzerland

Dr. Ahmad Shayan
ARRB Transport Research Ltd.
500 Burwood Highway
Vermont South Victoria
Australia 3133

Dr. Jan P. Skalny
Materials Service Life
Holmes Beach,
Florida, USA

Mrs. Danielle Sorrentino
Lafarge Laboratoire Central de Recherche
95 rue du Montmurier, BP 15
38291 Saint Quentin Fallavier Cedex, France

Prof. Ferenc D. Tamás
The University of Veszprém
Department of Silicate and Materials Engineering
H-8201 Veszprém, P.O. Box 158
Hungary

Prof. Mingshu Tang
College of Materials Science and Engineering
Nanjing University of Chemical Technology
Nanjing 210009, People's Republic of China

Prof. Franz-Josef Ulm
Department for Civil & Environmental Engineering
Massachusetts Institute of Technology
77 Massachusetts Avenue, Room 1-280
Cambridge, MA 02139-4307, USA

Prof. Dr. Wolfgang Wieker
WITEGA-AG Baustoffchemie
Rudower Chaussee 5/4.1
12489 Berlin, Germany

Prof. Dr. Folker Wittmann
Riestrasse 33
CH-8103 Unterengstringen
Switzerland

Contents

J. Hu, P. Stroeven: X-ray absorption study of drying cement paste and mortar **397**

A. Shvarzman, K. Kovler, G.S. Grader, G.E. Shter: The effect of dehydroxylation/amorphization degree on pozzolanic activity of kaolinite **405**

R. Kumar, B. Bhattacharjee: Study on some factors affecting the results in the use of MIP method in concrete research **417**

C.Y. Lee, H.K. Lee, K.M. Lee: Strength and microstructural characteristics of chemically activated fly ash–cement systems **425**

K.N. Jallad, M. Santhanam, M.D. Cohen: Stability and reactivity of thaumasite at different pH levels **433**

V. Deniz: A study on the specific rate of breakage of cement materials in a laboratory ball mill **439**

COMMUNICATION

S. Bhanja, B. Sengupta: Modified water–cement ratio law for silica fume concretes **447**

DISCUSSIONS

T.U. Mohammed, H. Hamada: A discussion of the paper “Relationship between the free and total chloride diffusivity in concrete” by Xinying Lu, Cuiling Li, and Haixia Zhang **451**

X. Lu: Reply to the discussion by T.U. Mohammed and H. Hamada of the paper “Relationship between the free and total chloride diffusivity in concrete” **453**

D. Herfort, M.D.A. Thomas, K. Scrivener: A discussion of the paper “Role of delayed release of sulphates from clinker in DEF” by Weislaw Kurdowski **455**

W. Kurdowski: Reply to the discussion by Duncan Herfort, Michael D.A. Thomas, Karen Scrivener of the review paper “Role of delayed release of sulphates from clinker in DEF” **457**

BOOK REVIEW

P.W. Brown: Review of “Sulfate Attack on Concrete”: By J.P. Skalny, J. Marchand and I. Odler, Spon Press (2002), ISBN 0-419-24550-2, **459**

NEWS ITEMS

461