



PII S0008-8846(96)00025-7

## NEWS ITEMS

### Calendar of Events

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| <b>1996 Spring Meeting of the Materials Research Society,</b><br>San Francisco, CA, USA. Information: MRS, 9800<br>McKnight Road, Pittsburgh, PA USA. Tel: (412) 367-3004;<br>Fax: (412) 367 4373.   | <b>April 8-12, 1996</b>  |
| <b>96th Annual Meeting of the American Ceramic Society,</b><br>Indianapolis, Indiana, USA. Information: David Lange,<br>University of Illinois, Dept. of Civil Engineering, 2207<br>NCEL, MC-250, Urbana, IL USA. Fax: (217) 333-9464.   | <b>April 14-17, 1996</b> |
| <b>18th International Conference on Cement Microscopy,</b><br>Omni Hotel, Houston, TX, USA. Information: Mr. Louis A.<br>Jany, Allentown Cement Co., Inc., P.O. Box 199, Blandon,<br>PA 19510-0199 USA or Mr. Arturo Nisperos, Construction<br>Technology Laboratories, Inc., 5420 Old Orchard Road,<br>Skokie, IL 60077-1030 USA. | <b>April 21-25, 1996</b> |
| <b>4th International Symposium on Utilization of High<br/>Strength/High Performance Concrete,</b> Palais des congrés,<br>Paris, France. Information: Mrs. Françoise Bourgain, BHP<br>96, École nationale des points et chaussées, 28 rue des<br>Saints-Peres, 75343 Paris cedex 07, France.  | <b>May 29-30, 1996</b>   |
| <b>International Conference on High Performance Concrete<br/>and Performance and Quality of Concrete Structures,</b><br>Florianópolis, Brazil. Information: Dr. V.M. Malhotra,<br>Conference Organizing Committee, CANMET, 405<br>Rochester St., Ottawa, Ontario, Canada K1A 0G6.<br>Fax: (613) 992-9389.                          | <b>June 5-7, 1996</b>    |
| <b>International Congress on Concrete in the Service of<br/>Mankind,</b> Dundee, Scotland. Information: Prof. R.K. Dhir,<br>Concrete Technology Unit, University of Dundee, Dundee<br>DD1 4HN, U.K. Tel: +44-382-344347; Fax: +44-382-<br>344816.  | <b>June 24-28, 1996</b>  |

Gordon Research Conference on **The Chemistry and Physics of Cement-Based Materials**, Plymouth State College, Plymouth, NH, USA. Information: Francis Young, University of Illinois, 105 S. Goodwin Ave, Urbana, IL USA. Fax: (217) 244-6917. e-mail: young@uxl.cso.uiuc.edu.

**July 28-August 2, 1996**

3rd CANMET/ACI International Conference on **Concrete in a Marine Environment**, The Algonquin Hotel, St.. Andrews-by-the-Sea, New Brunswick, Canada. Information: Dr. V.M. Malhotra, CANMET, 405 Rochester St., Ottawa, Ontario, Canada K1A 0G1. Fax: (613) 922-9389.

**August 4-9, 1996**

10th International Conference on **Alkali-Aggregate Reaction in Concrete**, The Regent Hotel, Melbourne, Australia. Information: Dr. S. Shayan, 10th International AAR Conference, C/-CSIRO Division of Building Construction and Engineering, PO Box 56, Highett, Victoria, Australia 3190.

**August 19-23, 1996**

21st Conference on **Our World in Concrete & Structures**, Hotel New Otani, Singapore. Information: John S.Y. Tan, Conference Director, 150 Orchard Road, #07-14 Orchard Plaza, Singapore 238841. Tel: (065) 7332922; Fax: (065) 2353530.

**August 26-28, 1996**

**World Innovations for the 21st Century**, the ACI/SCA International Conference on Sprayed Concrete and Shotcrete, Edinburgh, Scotland, UK. Information: Sprayed Concrete Association, Association House, 235 Ash Road, Aldershot, Hampshire GU12 4DD, U.K. Tel: +44 (0) 1252 21302; Fax: +44 (0) 1252 333901.

**September 10-11, 1996**

**ACI Convention**, Hyatt Regency, New Orleans, LA. Information: Conventions and Meetings, American Concrete Institute, P.O. Box 19150, Detroit, MI 48219-0150 USA.

**November 3-8, 1996**

5th NCB International Seminar on **Cement and Building Materials**, New Delhi, India. Information: The Organizing Secretary, Fifth NCB International Seminar, National Council for Cement and Building Materials, Post Box No. 3885, P 21 South Extension II, New Delhi - 110 049, India.

**November 25-29, 1996**

MRS 1996: **Structure-Property Relations in Cement Paste**, Boston, MA USA. Information: Prof. F.P. Glasser, Chemistry Department, Aberdeen University, Old Aberdeen, AB9 2UE, Scotland, U.K. Fax: +44-122-427-2921.02

**December 2-6, 1996**

**18th Biennial Conference on Concrete 97: Concrete for the Future**, Adelaide Convention Centre, Adelaide, Australia.

**May 14-16, 1997**

Information: Conference Manager, Concrete Institute of Australia, P.O. Box 452, Hindmarsh, 5007, South Australia.  
Tel: (61-8) 346 9722; Fax: (61-8) 346 9215.

**4th CANMET/ACI International Conference on Durability of Concrete**, Sydney Hilton Hotel, Sydney, Australia.

**August 17-22, 1997**

Information: V.M. Malhotra, CANMET, 405 Rochester St., Ottawa, Ontario Canada K1A 0G1. Fax: (613) 992-9389.

### **Call for Papers**

Announcing the 5th International Symposium on Brittle Matrix Composites (BMC 5), 13-15 October 1997, Staszic Place, Warsaw, Poland. The objective of the Symposium is to review the current status and developments on all aspects of brittle matrix composites, associated with four main groups: High strength composites; brittle polymer composites; ceramics, and cement-based materials. List of topics include: Design studies and computational methods; theoretical considerations; prediction of behaviour, durability; fracture mechanics; experimental methods and results; and applications and manufacturing processes. The program will comprise invited keynote papers and contributed oral presentations. Accepted papers will be advancing knowledge and/or technology. All papers will be published and will be available at the Symposium. Papers will be presented and discussed in English. Scientific sponsoring of the Symposium by the RILEM is expected. To receive information about BMC 5, and to indicate interest in participation, contact Professor A.M. Brandt, IFTR, Swietokrzyska 21, 00-049 Warsaw, Poland. Fax: (4822) 269815; e-mail: [abrandt@ippt.gov.pl](mailto:abrandt@ippt.gov.pl)

### **Call for Papers**

A Symposium on **Structure-Property Relationships in Hardened Cement Paste and Composites**, will be held during the Materials Research Society Fall Meeting, December 2-6, 1996, Boston, MA USA. Papers are invited on all relevant aspects including:

- theoretical advances in predicting structure-property-composition relationships;
- advances in characterization techniques;
- advanced characterization techniques applied to real materials;
- laboratory pilot or full-scale studies showing how control over the structure of hardened paste can be used to control property-composition relationships;
- application of characterization techniques to the control of structure-property relationships;
- constitutive modeling and mechanical properties of cement-based materials;
- design of novel systems, including processing techniques and property interactions;
- cement-based composites with ultrafine and hybrid fibers; manufacturing techniques for cementitious materials;

- characterization for durability and design systems for severe environments;
- process of fracture in cementitious materials; characterization of mechanical properties, and their interrelationship with microstructure;
- toughening mechanisms-relationship between microstructure and macroproperties; mathematical modeling of interfacial zone, effect of interfacial zone on the durability and embrittlement of cement-based materials.

For additional information, contact one of the Symposium Co-Chairs: Della M. Roy (primary contact), 217 Materials Research Laboratory, Pennsylvania State University, University Park, PA 16802 USA. Tel: (814) 865-1196; Fax: (814) 863-7040 or 865-2326; S.P. Shah, Northwestern University, The Technological Institute, Evanston, IL 60208 USA. Tel: (708) 491-3858; Fax: (708) 467-1078; or F.P. Glasser, University of Aberdeen, Chemistry Dept., Old Aberdeen AB9 2UE, U.K. Tel: 44-122-427-2096; Fax: 44-122-427-2921.

**10th International Congress on The Chemistry of Cement** will be held in Gothenborg, Sweden, June 2-6, 1997. The Congress intends to reflect advances in all aspects of cement science. Original papers are welcome; the following list is indicative of the coverage. Suggestions for special topics or mini-seminars will also be considered.

- Clinker Production: New processes; low energy clinker formation; utilization of industrial by-products and wastes; application of mineralizers; modifiers and activators; correlating process parameters with clinker properties; clinker structure and mineralogy.
- Portland, Blended and Special (e.g. High Alumina) Cements: Rheology; hydration kinetics and microstructure development; structural models for hydrated cementitious pastes; chemical and physical shrinkage; influence of blends or additions of combustion ash, slag, silica fume or rice husk ash; Influence of mixing techniques and curing conditions.
- Utilization of Admixtures; Water Reducers, Air Entrainers; Accelerators, Retarders and Polymers: Mechanisms; admixture chemical ~ cement interaction; influence of admixtures on microstructure development; combined admixtures and their mixing techniques; influence of type, dose, addition time and mixing time.
- Performance and Durability of Concrete and Cement Based Systems: Pore structure and its influence on permeability and diffusivity of gases (e.g. carbon dioxide), liquids (e.g. water) and dissolved ions (e.g. chlorides); physico-chemical (e.g. sulphates), thermal (e.g. freeze-thaw) and biological degradation, including environmental and synergistic effects; cement aggregate compatibility (e.g. alkali-aggregate reactions) and structure ~ performance relationships; influence of physical-chemical aspects during early material history on durability (e.g. high curing temperature ~ secondary ettringite formation); modelling of degradation processes; life cycle analyses.
- Developments in Characterization Techniques: Nuclear magnetic resonance (NMR); x-ray diffraction (XRD); diffraction by synchrotron radiation or neutrons; scanning electron microscopy; other techniques.

The scientific papers accepted for presentation will be grouped by the Scientific Committee into three categories: 1) full publication; 2) oral presentation; 3) poster presentations. The latter two

categories will appear in the printed proceedings as informative summaries, up to two pages. All published papers will be refereed.

10th ICCO Deadlines: submission of 200 word abstract: April 15, 1996. Acceptance of abstracts and notification to the authors: May 31, 1996. Submission of draft papers of informative summaries for review by scientific committees: August 31, 1996. Acceptance of papers and notification to authors: November 31, 1996. Final Programme, registration and hotel booking form to be distributed: December 31, 1996. Submission of final manuscripts according to instructions supplied by the ICCO organizer: March 31, 1997.

Send three copies of the abstract to: The 10th ICCO organizer, c/o Congrex, Box 5078, S-402 22 Gothenburg, Sweden by post or courier. A preliminary fax copy may be sent (fax: +46 31-20-36-20) but must be supplemented by plain paper copies by mail.

Announcing the 5th International Symposium on **Brittle Matrix Composites (BMC 5)**, 13-15 October 1997, Staszic Place, Warsaw, Poland. The objective of the Symposium is to review the current status and developments on all aspects of brittle matrix composites, associated with four main groups: High strength composites; brittle polymer composites; ceramics, and cement-based materials. List of topics include: Design studies and computational methods; theoretical considerations; prediction of behaviour, durability; fracture mechanics; experimental methods and results; and applications and manufacturing processes. The program will comprise invited keynote papers and contributed oral presentations. Accepted papers will be advancing knowledge and/or technology. All papers will be published and will be available at the Symposium. Papers will be presented and discussed in English. Scientific sponsoring of the Symposium by the RILEM is expected. To receive information about BMC 5, and to indicate interest in participation, contact Professor A.M. Brandt, IFTR, Swietokrzyska 21, 00-049 Warsaw, Poland. Fax: (4822) 269815; e-mail: [abrandt@ippt.gov.pl](mailto:abrandt@ippt.gov.pl)

### New Books

**Reinforced Concrete: Analysis and Design**, S.S. Ray, 1995. Blackwell Science Ltd., Osney Mead, Oxford OX2 0EL, U.K. ISBN: 0-632-03724-5.

This book is an excellent reference document for the practicing engineer. All aspects dealing with the theory of reinforced concrete are condensed in Chapter 1. It is, therefore, assumed that the reader is familiar with the topic but not well versed with its implementation in design. The remaining chapters cover in great detail design procedures for beams, columns, corbels, foundations, walls, slabs, and connections. Of particular interest are the many examples that reproduce real field conditions. Design problems are carried out according to the methods prescribed by the British Standards Institutions.

This book is a recommended addition to any professional engineer's private library.