

News and events

CMRC awards seed money

The Concrete Materials Research Council (CMRC) has awarded Pennsylvania State University \$10,000 in seed money to implement a research programme for the "improvement of cement paste in fresh concrete". Subsequent to the CMRC funding, the federally sponsored Strategic Highway Research Program (SHRP) has awarded the University an additional \$1,300,000 for this research programme. This is a portion of the \$15 million that SHRP has earmarked for concrete research projects.

13–15 April 1988, Durham, England

Porosity and permeability

The Cement and Concrete Group of the Institute of Ceramics is holding a meeting on porosity and permeability in cementitious materials, as part of the Institute's Annual Convention at the University of Durham, in April 1988. The following topics will be covered: permeability of concrete with lightweight and porous aggregates; water absorption and penetrability measurements of concrete; porosity and permeability of cementitious materials, including macrodefect-free cements and fly ash blends, and calcium sulphates; using methanol exchange and adsorption, electron microscopy and image analysis techniques. For more information, contact: The Executive Secretary, The Institute of Ceramics, Shelton House, Stoke Road, Shelton, Stoke-on-Trent, Staffs ST4 2DR, England.

1–5 May 1988, Cincinnati, Ohio, USA

American Ceramic Society Annual Meeting

As part of the 90th Annual Meeting of the American Ceramics Society in Cincinnati, Ohio in May 1988, the Cements Division is holding two sessions on cements for special purposes and special concretes (gypsum and sulphate cements, blended cements, non-silicate cements, mineral and chemical admixtures, achieving special properties, cements in non-routine applications), and advances in characterization of cements. There will also be joint sessions on cements for biotechnical applications (with the Engineering Ceramics Division), and cements for nuclear waste containment (with the Nuclear Division). For details, contact Lillian D. Wakely, US Army Engineer Waterways Experiment Station, WESSC-M, PO Box 631, Vicksburg, MS 39180-0631, USA.

24–26 May 1988, Quebec

Cement Industry Technical Conference

The 30th Annual Cement Industry Technical Conference, sponsored by the Institute of Electrical and Electronic Engineers, will be held at the Quebec Hilton Hotel in Canada in May. Presentations will cover subjects related to: automation; power generation and distribution; maintenance and safety; drives and related products; general practices. The programme will also include a tour of the Ciment Quebec Inc plant at St-Basile de Portneuf, where visitors will see a unique short kiln. Registration and programme information is available from: IEEE Inc, c/o A. Morneau, PO Box 1156, Beauport, Quebec, Canada G1K 7C9.

30 May–3 June 1988, Tokyo, Japan

Advanced cements and chemically bonded ceramics

The Materials Research Society will be holding a multi-symposia meeting—an international meeting on advanced materials—at Sunshine City, Ikebukuro, Tokyo, Japan. The meeting will be a forum for scientists from around the world to discuss key materials in present and future industrial advances. Of particular interest to readers of *ACR* is Symposium S: Advanced cements and chemically bonded ceramics, which will focus on recent advances in inorganic binders both in scientific and applicational aspects. Papers have been sought on: fibre-cement and polymer-cement composites, use of ettringites, phosphate-bonded cements and high strength concretes; and applications are expected to include: civil engineering and building, high temperature, hydrothermal, engineering and medical applications. Further information can be obtained from: Professor M. Daimon, Department of Inorganic Materials, Tokyo Institute of Technology, 2-12-1, Ookayama, Meguro 152, Tokyo, Japan.

29 June 1988, Baltimore, USA

Carbonate additions to cement

A symposium sponsored by the ASTM Committee on cement is to be held in Baltimore in June 1988. Papers are expected to cover the following topics: methods for determining carbonate additions in cement; the impact on cement standards; the effects on fresh and hardened properties of cement pastes, mortars and concretes,

such as strength development; effects on durability, shrinkage, creep and heat of hydration; cement and hydration chemistry of carbo-aluminates.

An ASTM Special Technical Publication based on the Symposium Proceedings is anticipated by ASTM. Information may be obtained from Symposium Chairman Paul Klieger, Consultant, PO Box 2275, Northbrook, Illinois 60065, USA.

4–6 July 1988, Sydney, Australia
Fly ash, slag, silica fume and other siliceous materials in concrete

A three-day international workshop—Concrete Workshop '88—will be held in Sydney, Australia from 4 to 6 July 1988. Authorities from North America, Europe, New Zealand and Australia have been invited to present papers on: general properties and characterization; techniques of utilization; specialist applications; international standards; chemistry and morphology; durability; future use. Proceedings of the Workshop will not be issued and bound volumes of the papers will only be available to delegates. The Workshop is sponsored by the Concrete Institute of Australia, the National Building Technology Centre, the Canada Centre for Mineral and Energy Technology, and the Institute for Research in Construction. For information, contact: The Secretary, Concrete Workshop '88, National Building Technology Centre, PO Box 30, Chatswood, NSW 2057, Australia.

31 July–5 August 1988, New Hampshire, USA
Advances in cement manufacture and use

The Engineering Foundation is sponsoring a conference on 'Advances in cement manufacture and use' at New England College, Henniker, New Hampshire. Chairman is Ellis Gartner, W. R. Grace & Co; co-chairmen are Vagn Johansen, F. L. Smidth & Co, and F. M. Miller, Ideal Basic Industries. This will be the fourth in a series of conferences on cement manufacture and use held triennially since 1979.

The conference will include sessions in the subject areas listed below and papers may be offered on any of them. The term 'cement' in the titles is intended to include any calcium silicate-based cement, thereby recognizing that cementitious materials other than Portland cement clinker are of equal importance to the discussions. Topics include: materials science of cement and concrete; advances in cement clinker manufacturing, concrete technology, theory of cement hydration, cement production technology, concrete construction practice; influence of cement composition on concrete properties; durability and reliability of concrete; past and future of cement and concrete technology.

In addition to formal morning and evening sessions, four afternoons will be free for ad hoc sessions to be organized by the participants. Attendance at the conferences is by invitation or application. For information, contact the Engineering Foundation, 345 East 47th Street, New York, NY 10017, USA. Tel: (212) 705-7835, Telex 126022.

21–26 August 1988, New Brunswick, Canada
Concrete in marine environment

The first CANMET/ACI International Conference on Performance of concrete in marine environment was held in New Brunswick in August 1980. There were 40 papers from 11 countries and it was attended by 175 people. This second conference will give current information on the subject, and will be of interest to anyone concerned with concrete structures exposed to a marine environment.

In the third circular issued by CANMET 48 papers from 16 countries are listed. As well as the formal conference sessions, there will be a field trip during the conference to Treat Island Exposure Station, which has been operated by the US Army Corps of Engineers since 1936. It has been used in recent years by several organizations to study the effects of weather and tidal water on concrete specimens of a wide variety of composition.

Further details may be obtained from H. S. Wilson, Secretary-Treasurer, Second International Conference on Concrete in Marine Environment, PO Box 3065, Station C, Ottawa, Ontario K1Y 4J3, Canada.

20–21 September 1988, Oxford, UK
Microstructure of cement and concrete—call for papers

This meeting, sponsored and organized by the Materials Science Committee of The Institute of Metals, will explore the problems associated with the microstructure of cement and concrete. It will also permit informal groups of participants to discuss the applicability of modern techniques and models which are presented.

Papers are invited particularly on the following topics: novel techniques for determining microstructure; microstructure of traditional cements and concrete, and of blended cements; influence of chemical admixtures on microstructure; influence of the effects of waste incorporation (e.g. radioactive or hazardous waste) on microstructural development. Short abstracts should be submitted by the end of April to: Ms M. E. Blower, Conference Department (CC), The Institute of Metals, 1 Carlton House Terrace, London SW1Y 5DB, England.

10–13 October 1988, Berlin

Nuclear waste management—call for papers

The 12th International Symposium on the Scientific basis for nuclear waste management will be held at the Internationales Congress Centrum, West Berlin. The Symposium is cosponsored by the Hahn-Meitner-Institut, the Materials Research Society and other institutions to be acknowledged in the final programme. The Symposium will focus on the science underlying: waste forms (vitreous, spent fuel, cement); waste isolation (container materials, backfill, repository); modelling and performance assessment.

Contributed papers are especially sought on: spent fuel; waste form characterization (glasses, ceramics, cement); waste package characterization and backfill; leaching mechanisms; natural analogues; radionuclide migration and speciation studies; in situ testing of waste forms; repositories. Abstracts must be sent by 15 April 1988 to the Symposium Chairman, W. Lutze, Hahn-Meitner-Institut, Berlin GmbH, Glienicker Strasse 100, D-1000 Berlin 39, West Germany. Acceptance of papers will be notified by 15 May and the deadline for full papers is 1 August 1988. Other information about the Symposium can be obtained from Ms Helga Fuchs at the same address as above. (Tel. (30) 8009–2291, Fax (30) 8009–2999, Telex 185 763.)

28 November–1 December 1988, Boston, USA

Fly ash and coal conversion by-products

The 1988 Fall Meeting of the Materials Research Society will again include a symposium on Fly ash and coal conversion by-products, characterization, utilization and disposal, the fifth in the series. Information about the Symposium, including details of the call for

papers, may be obtained from: E. E. Berry or R. T. Hemmings, Ontario Research Foundation, Sheridan Park Research Community, Mississauga, Ontario, Canada L5K 1B3.

1–3 December 1988, Boston, USA

Pore structure and permeability

A symposium on pore structure and permeability of cementitious materials is to be held as part of the 1988 Fall Meeting of the Materials Research Society. The three-day symposium will address the importance of porosity, pore structure, permeability and diffusivity on the properties and environmental stability of cement-based materials, with special emphasis on the underlying science and measurement techniques.

Papers are solicited in the following areas: fundamentals of porosity, diffusivity and permeability; experimental techniques, relationship of concrete properties to porosity, diffusivity and permeability; new avenues to control durability through engineering of porosity. Abstracts should be submitted by 10 June 1988 to L. R. Roberts, W. R. Grace & Co., Construction Products Division, 62 Whittemore Avenue, Cambridge, MA 02140, USA, from whom details of the required format for abstracts may be obtained. The organizers plan to publish the reviewed and accepted manuscripts in the MRS Symposia Proceedings series.

A partial list of invited speakers and session chairs include: S. Diamond, Purdue University; R. F. Feldman, NRC, Canada; R. A. Helmuth, Construction Technology Laboratories; S. Mindess, University of British Columbia; M. Regourd, CEBTP, France; R. W. Rice, W. R. Grace & Co.; D. M. Roy, Pennsylvania State University; D. Winslow, Purdue University; J. F. Young, University of Illinois.