Committee C-1 News

Two Task Groups Begin Work on Mineralogical Analysis of Cement

Two task groups focusing on mineralogical analysis of cement using X-ray diffraction and microscopy were formed recently by Subcommittee C01.23 on Compositional Analysis, an arm of ASTM Committee C-1 on Cement. The groups will seek to develop test methods and practices for quantitative mineralogy of cement and clinker to aid in correlating actual mineralogy with physical properties of cement. The chairman of C01.23, R. F. Gebhardt of Lehigh Portland Cement, says this could lead to the possible replacement of "calculated potential compounds in cement specifications with actual compounds." For further information on the new groups, contact R. F. Gebhardt, Lehigh Portland Cement, 718 Hamilton Mall, Allentown, Pa. 18105 (215/776-2600); or Kenneth C. Pearson, ASTM Standards Development Division, 1916 Race St., Philadelphia, Pa. 19103 (215/299-5520).

Upcoming Meetings

Both Committee C-1 on Cement and C-9 on Concrete and Concrete Aggregates will meet during ASTM's June Meeting in Detroit. C-1 will meet 22-24 June and C-9 will meet 24-26 June.

ASTM Publication News

STP 691—Durability of Building Materials and Components

Durability of new buildings, as well as the preservation and rehabilitation of older buildings, is especially important in light of worldwide focus on energy and materials conservation, pollution control, and inflation. The economic impact of durability, including the methods and criteria for testing and evaluation, are of interest to every field.

STP 691 is the first major international review of durability research for a comprehensive range of building materials and components. The information presented is based on The First International Conference on Durability of Building Materials and Components sponsored by ASTM, the National Research Council of Canada, the National Bureau of Standards, and the International Union of Testing and Research Laboratories for Materials and Construction (RILEM). In addition to providing a forum for durability research review the conference was organized to facilitate the identification and recognition of common aspects of durability research worldwide. This is accomplished in STP 691 with the publication of 83 papers by scientists and technologists from 20 different countries.

STP 709—Quality Assurance in Pavement Construction

Specifically addresses quality assurance in pavement construction by providing insight from four important perspectives. This range of knowledge is covered by a federal administrator, a state purchasing authority, a materials supplier, and a contracting firm. Each author approaches the subject from his own field of involvement and experience, an excellent reference for those wishing an overview and different insights for quality assurance in general and for pavement construction in particular.

STP 713—Corrosion of Reinforcing Steel in Concrete

This comprehensive volume presents up-to-date information that can be applied toward the understanding and prevention of corrosion related to coastal or offshore reinforced concrete structures as well as to highway bridges. The testing aspects of corrosion of reinforcing steel in concrete are highlighted and include both laboratory and field studies.

Colloquium

A colloquium, "Advanced Mechanics of Reinforced Concrete; Synthesis of Material Research and Numerical Analysis," will be held in Delft, The Netherlands from 2-4 June 1981. It is cosponsored by the American Society of Civil Engineers, Comite Europeen du Beton (European Committee for Concrete), and the International Union of Testing and Research Laboratories for Materials and Construction (RILEM). The contents of the colloquium fall into three categories: modeling of material behavior, structural modeling for numerical analysis, and applications and experimental verification. Each category will be given equal treatment in the colloquium. Further information can be obtained from the Secretariat of the International Association for Bridge and Structural Engineering, ETH-Honggerberg, CH-8093 Zurich, Switzerland.

Concrete Society 1980 Awards

The Concrete Society, London, has announced its 1980 awards. In the Building Structure category the winner is the Submarine Refit Complex and Fleet Maintenance base, HM Naval Base, Devonport which was designed by Howell Killick Partridge & Amis, architects and Sir Alexander Gibb & Partners, consulting engineers and built by Kier Limited. In the Civil Engineering category the winner is the Byker Viaduct, Newcastle-upon-Tyne for which the consulting engineers were Ove Arup & Partners, architects Renton Howard Wood Levin Partnership, and contractors John Mowlem & Company Limited. There was no outright winner in the new Landscape and Townscape category, which is to be included every three years, but the Hounslow Civic Centre, Middlesex received a high commendation. Landscape architects for this project were Jakobsen Landscape Architects and Urban Designers.
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ASTM Committee C-1 on Cement

Scope

The development of specifications, methods of test, recommended practices, and definitions of terms for hydraulic-cements, including portland, natural, pozzolanic, masonry and slag cements, and modifications of the foregoing, and combinations during manufacture thereof; the investigation of the properties of hydraulic cements and the promotion of improvement and uniformity of testing and these materials; joint sponsorship, with ASTM Committee C-9 on Concrete and Concrete Aggregates, of the Cement and Concrete Reference Laboratory, a cooperative project of the Government and ASTM.

Officers

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Vice-Chairman: C. D. Fehnel, Lone Star Industries, Inc., P.O. Box 2880 (411 Putnam Ave.), Greenwich, Conn. 06830
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Membership Secretary: R. O. Lane, Tennessee Valley Authority, Singleton Materials Engineering Laboratory, Knoxville, Tenn. 37902

ASTM Committee C-9

on Concrete and Concrete Aggregates

Scope

The assembling and study of data pertaining to the properties of portland cement concrete and its constituent materials, including the study of effect of characteristics of materials and mixtures upon the properties of concrete; the development of methods of test for concrete and for the constituent materials of concrete (except cement), as well as for certain related materials, such as materials used in curing; the formulation of standard specifications for the constituent materials of concrete (except cement) and for concrete itself (subject to suitable interpretation of the term “concrete”). The scope of Committee C-9 does not include the field of design and construction of concrete structures except insofar as references need to be made to construction methods in special cases of concrete as “over-the-counter” materials.

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