

TESTING FORUM

ASTM NEWS

ASTM Committee on Standards

Robert E. Philleo, a self-employed consulting engineer and former chief of the Structures Branch of the Corps of Engineers, Washington, DC, was appointed by the ASTM Board of Directors to a three-year term on the Committee on Standards, beginning 1 Jan. 1984.

Philleo, of Annanwood Court, Annandale, VA, is a past member of the ASTM Board of Directors, having served from 1978 to 1981. He is also a past chairman of ASTM Committee C-9 on Concrete and Concrete Aggregates and served on the ASTM Committee on Publications, a standing committee of the ASTM Board of Directors.

A native of Spokane, WA, Philleo received a B.S. degree in civil engineering in 1946 from the Carnegie Institute of Technology, now Carnegie-Mellon University.

Upon graduation, Philleo joined the staff of the Portland Cement Association as a research engineer. During this period he also lectured at Northwestern University at Evanston.

In 1958, Philleo joined the Corps of Engineers of the U.S. Department of the Army. He worked as a civil engineer until 1970, and for the next eight years as chief of the Concrete Branch. He held the position of chief of the Structures Branch from 1978 to 1983. Throughout his years with the Corps of Engineers, Philleo was involved with the design of hydraulic structures, nondestructive testing of concrete, effects of high temperature on concrete, and the application of statistical methods to structural engineering and materials science.

Philleo is a past president and member of the American Concrete Institute. He is also a member of the Transportation Research Board, U.S. Committee on Large Dams, Concrete Society of the United Kingdom, and the International Council for Building Research, Studies, and Documentation (CIB).

Philleo is the author of numerous technical papers on mechanics of materials and a coauthor of the *Concrete Construction Handbook*. In 1967 he delivered the Stanton Walker Lecture at the University of Maryland and in 1974 received the Meritorious Civilian Service Award from the Department of the Army.

ASTM Board of Directors

John F. McLaughlin, associate dean of engineering at Purdue University in West Lafayette, IN, was elected to a three-year term on the ASTM Board of Directors, beginning 1 Jan. 1984.

McLaughlin, a resident of Sumac Drive in West Lafayette, has been an active member of ASTM since 1959. He is a past chairman of ASTM Committee C-9 on Concrete and Concrete Aggregates and a member of several C-9 subcommittees.

A registered professional engineer, McLaughlin is also a member and Fellow of the American Society of Civil Engineers, a past president and Fellow of the American Concrete Institute (ACI) and an active member of many ACI committees. He is a member of the American Society for Engineering Education, the Indiana and the

National Society of Professional Engineers, Sigma Xi, and Tau Beta Pi.

A native of New York city, McLaughlin received his B.S. degree in civil engineering at Syracuse University in 1950 and his M.S. and Ph.D. degrees from Purdue University, 1953 and 1957, respectively.

McLaughlin began his teaching career at Purdue University in 1951, as instructor and later professor of civil engineering. In 1968, he was named head of the School of Civil Engineering; he has been associate dean of engineering since 1978.

Although his primary responsibility is academic management, McLaughlin continues teaching and researching in the field of construction materials with emphasis on concrete-making materials. He has written numerous papers on highway engineering and construction materials. McLaughlin also serves as a consultant for the U.S. Army Corps of Engineers.

ASTM is a management system with 30 000 members responsible for the development of nearly 7 000 voluntary consensus standards used worldwide by industries and consumers.

ASTM Sanford E. Thompson Award

Surendra P. Shah, professor of civil engineering at the Technological Institute, Northwestern University, Evanston, IL, has been named a 1983 recipient of the Sanford E. Thompson award by ASTM.

Shah, a resident of McDaniel Avenue in Evanston, received the award 7 Dec. 1983 in Bal Harbour, FL, at ceremonies hosted by ASTM Committee C-9 on Concrete and Concrete Aggregates. He was honored for his paper, "Inertial Effects in the Instrumented Impact Testing of Cementitious Composites," cowritten with Wimal Suaris of the University of Miami in Coral Gables, FL. The paper was published in *Cement, Concrete, and Aggregates* (Vol. 3, No. 2, Winter 1981, pp. 77-83).

The Sanford E. Thompson Award, established in 1938, is awarded annually to the author or authors of a paper, published by ASTM, dealing primarily with a subject pertinent to the objectives of Committee C-9.

A native of Bombay, India, Shah received his B.S. degree in civil engineering in 1959 from B.V.M. College in India. His M.S. and Ph.D. degrees in civil engineering were obtained from Lehigh University in 1960 and Cornell University in 1965, respectively.

Before obtaining his present position at Northwestern in 1981, Shah was a professor of civil engineering at the University of Illinois in Chicago from 1965 to 1980. He was also a visiting associate professor at the Massachusetts Institute of Technology from 1968 to 1969 and a guest professor at Delft University of Technology from 1976 to 1977. Throughout his career, Shah's research and teaching concentrations have included the field of concrete materials and concrete structures, including fracture mechanics and fiber-reinforced and high-strength concrete.

In addition to ASTM, Shah holds membership with the Transportation Research Board and the Prestress Concrete Institute. He is chairman of the Committee on Fatigue of Concrete of the American Concrete Institute, a member of the Coordinating Group of the International Union of Testing and Research Laboratories of Ma-

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terials and Structures, and a past chairman of the Committee on Properties of Materials of the American Society of Engineers. Shah is also a member of the editorial board of four international journals.

Wimal Suaris, assistant professor of civil engineering at the University of Miami, Coral Gables, FL, has also been named a 1983 recipient of the Sanford E. Thompson award by ASTM.

Suaris, a resident of S.W. 57th Avenue in Miami, FL, received the award 7 Dec. 1983 in Bal Harbour, FL, at ceremonies hosted by ASTM Committee C-9 on Concrete and Concrete Aggregates. He was honored for his paper "Inertial Effects in the Instrumented Impact Testing of Cementitious Composites," cowritten with Surendra P. Shah of Northwestern University in Evanston, IL.

A native of Colombo, Sri Lanka, Suaris received a B.S. degree in civil engineering in 1977 from the University of Sri Lanka. He also obtained a Masters of Engineering degree in structural engineering in 1979 from the Asian Institute of Technology and a Ph.D. degree in civil engineering in 1983 from Northwestern University.

Suaris has held his position at the University of Miami since 1982. He has concentrated his research on such areas as constitutive modeling of concrete using the continuous damage approach and experimental studies of the behavior of concrete under dynamic loading.

In addition to ASTM, Suaris holds membership in the American Society of Engineering Education and the American Society of Civil Engineers.

Nicholas J. Carino Receives Awards

ASTM member, Nicholas J. Carino, a research civil engineer at the National Bureau of Standards (NBS), recently received recognition for research on the maturity method for concrete strength prediction. He received the Center for Building Technology Communicator of the Year Award for "effective dissemination of the results of research on the maturity method in 1982." He also received a U.S. Department of Commerce Bronze Medal Award for "outstanding contributions to the advancement of the maturity method." In addition, he was awarded certificates of recognition for his participation in NBS investigations of major construction failures. Dr. Carino is a member of Committee C-9 on Concrete and Concrete Aggregates and an active participant in four ASTM subcommittees.

Call for Papers

Papers are sought for a Symposium on Alkalies in Concrete, sponsored by ASTM Committee C-9 on Concrete and Concrete Aggregates and cosponsored by ASTM Committee C-1 on Cement. The symposium will be held the evening of 25 June 1985 at the Biltmore Hotel in Los Angeles, CA, in conjunction with the standards-development meetings of Committees C-9 and C-1.

The symposium seeks to examine the influence of the increasing alkali content of concrete, whether it is introduced by portland cement, pozzolans, chemical admixtures, or by the surroundings.

The emphasis will be on such effects on concrete as its time of setting, air entrainment capability, slump loss, compressive/flexural strength, and resistance to sulfate attack. The symposium topics are not limited to these areas, however, and the subject of alkali content is open to any other areas of investigation.

Research and review papers on this topic are sought. Prospective authors are requested to submit a 300- to 500-word abstract and an ASTM Paper Submittal Form by 9 Sept. 1984 to Kathy Greene, ASTM Publications Department, 1916 Race Street, Philadelphia, PA 19103, 215/299-5414. ASTM Paper Submittal Forms are available from Kathy Greene.

Information on the technical content of the program is available from Symposium Chairman Dr. Vance H. Dodson, W. R. Grace & Co., 62 Whittemore Avenue, Cambridge, MA 02140, 617/876-1400.

An ASTM Special Technical Publication (STP) is expected to result from the symposium. ASTM may print and distribute accepted abstracts at the symposium with the approval of the chairman.

New Standard

A slump cone test is the first standard completed by Subcommittee C09.03.04 on Fiber Reinforced Concrete, a part of Committee C-9 on Concrete and Concrete Aggregates. ASTM Test Method for Time of Flow of Fiber-Reinforced Concrete through Inverted Slump Cone (C 995) was approved by the Society in August and is now available. The standard, applicable to freshly mixed concrete having coarse aggregate up to 1½ in. in size, covers determinations both in the laboratory and the field. Contact: Colin Johnston, University of Calgary, Civil Engineering Dept., Calgary, Alta. (403/284-6599). Copies of C 995 are available from ASTM Sales Service (215/299-5585).

CONCRETE LITERATURE

Concrete in the Oceans

"Concrete in the Oceans—Technical Report No. 8—Exposure Tests on Concrete for Offshore Structures" has been published by the Cement and Concrete Association for the Concrete in the Oceans Management Committee. The report, by J. A. Stillwell of Wimpey Laboratories Ltd, describes a series of exposure tests conducted to investigate the penetration of chlorides from seawater into concrete, and the corrosion of steel reinforcement embedded in concrete in a marine environment. The depth of penetration of chlorides and the chloride content at various depths was investigated by exposing concrete prisms for periods of up to two and a half years. The tests used 98 prisms of two grades of concrete in five exposure zones ranging from a marine atmosphere to deep immersion.

The corrosion of the steel reinforcement was investigated in 28 pairs of reinforced concrete beams, which were exposed for periods of up to two and a half years, in a deep immersion zone at Loch

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Linnhe in Scotland and a splash zone at Portland Harbour in Dorset. The concrete beams were cast with two thicknesses of cover to the reinforcement (25 and 75 mm) and with two grades of concrete (standard 65 N/mm² and low 30 N/mm²). The beams were then placed back to back and stressed to induce cracking, the layout of the reinforcement being such that the crack could be induced either transverse or longitudinal to the reinforcement.

The report includes a series of color photographs typifying the various degrees of reinforcement corrosion observed. A number of specimens were retained in both exposure zones and will be tested at the end of Phase 2 of the Concrete in the Oceans program, to give a five year exposure period.

Technical Report No. 8 (Reference 15.638) is available from Publications Distribution, Cement and Concrete Association, Wexham Springs, Slough SL3 6PL, United Kingdom.

New Residential Concrete Book

Laurence Miller, of the National Association of Home Builders (NAHB) Research Foundation, Inc., has written an 80-page guide to residential concrete construction. The NAHB commissioned *Residential Concrete* to answer home builders' most frequent questions and offer solutions to problems.

Topics covered in the well-illustrated manual include the basics of concrete; admixtures; ordering ready mixed concrete; form-building; placing and finishing; jointing; decorative finishes; curing; extreme-weather concreting; basement leakage control; preventing scaling, spalling, and cracking; repair techniques; waterproofing; and much more.

Residential Concrete is available for purchase from Order Processing, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077. Telephone: 312/966-6200, ext. 450.

AMERICAN CONCRETE INSTITUTE

Several ASTM members have been recognized by the American Concrete Institute (ACI), Detroit, MI. *I. Leon Glassgold*, president and chief engineer, Masonry Resurfacing and Construction Co., Baltimore, MD, has been elected to the ACI board of direction. Glassgold is a member of Committee C-9 on Concrete and Concrete Aggregates. He joined ASTM in 1946. *Walter E. Kunze*, group vice-president, Construction Technocloy Labs., Portland Cement Assn., Skokie, IL, has been elected to a two-year term as a vice-president of ACI. Previously Kunze served on the ACI board of direction. He is a member of Committees C-1 on Cement and E-36 on Criteria for the Evaluation of Testing and Inspection Agencies. Kunze is also Chairman of C01.96 on Cement and Concrete Reference Laboratory. *Ignacio Martin*, principal of Capacet-Martin & Assoc., San Juan, PR, has been elected president of ACI. Formerly a vice-president of the institute, he will serve a one-year term. Martin joined ASTM in 1955. *John F. McLaughlin*, acting dean of the School of Engineering, Purdue Univ., West Lafayette, IN, received the award of Honorary Membership from ACI, the institute's highest award. McLaughlin, a past-president

and fellow of ACI, was honored for his faithful and continued service to the institute, including his very successful presidency, and for his involvement with the educational process relating to the many objectives of the institute. He is chairman of Committee C-9 and a member of the Coordinating Committee for Standard Reference Materials for Particle Metrology. McLaughlin is a member of the ASTM Board of Directors. *Richard C. Meininger*, director of engineering research, National Sand and Gravel Assn. and the National Ready-Mixed Concrete Assn., Silver Spring, MD, received the ACI Construction Practice Award. The award, established in 1944, is given for a paper of outstanding merit on concrete construction practice. Meininger received the award for the authorship of a paper, "Ordering Quality Concrete for Residential or Commercial Jobs," published by the institute in 1982. He is a member of Committees C-9, D-4 on Road and Paving Materials, and E-17 on Traveled Surface Characteristics. He is also chairman of C09.03.05 on Methods of Testing and Specifications for Physical Characteristics of Concrete Aggregates. *Gerald B. Neville*, manager, structural codes, codes and standards department, Portland Cement Assn., Skokie, IL, has received the Henry L. Kennedy Award. The Kennedy citation recognizes outstanding technical or administrative service to the institute. Neville was honored for outstanding service to and advancement of ACI as secretary to Committee 318, Standard Building Code. He is a member of Committee A-1 on Steel, Stainless Steel, and Related Alloys. *Robert E. Philleo* has been awarded the ACI Henry C. Turner Medal for broad contributions in concrete engineering and the development of consensus standards for concrete and concrete construction. Now employed in a private consulting engineering capacity, Annandale, VA, Philleo recently retired after 28 years with the U.S. Army Corps of Engineers. At the time of his retirement, he was chief, Structures Branch, Office of the Chief of Engineers, Washington, DC. He is a member of Committees C-1, C-9, E-11 on Statistical Methods, and the Committee on Standards. He is also chairman of C01.10 on Portland Cement and C09.03.10 on Fly Ash, Slag, Mineral Admixtures, and Supplementary Cementitious Materials. Philleo served as an ASTM Director from 1978 until 1981. *Charles G. Salmon*, professor of civil engineering, University of Wisconsin, Madison, WI, has received the Delmar L. Bloem Distinguished Service Award for innovative and significant contributions in the field of reinforced concrete design. Salmon is a member of Committee E-43 on Metric Practice. *John M. Scanlon*, chief, concrete technology division, Waterways Experiment Station, U.S. Army Corps of Engineers, Vicksburg, MI, has been elected to the board of direction of ACI. Scanlon is a member of Committees C-1 and C-9. *Charles F. Scholer*, professor of civil engineering, Purdue Univ., West Lafayette, IN, has also been elected to the ACI board of direction. Scholer is a member of Committees C-9 and C-27 on Precast Concrete Products. *Steward C. Watson*, president of Watson-Bowman Assoc., Getzville, NY, has received the Delmar L. Bloem Distinguished Service Award for outstanding performance while serving on ACI technical committees. Watson was recognized for outstanding technical expertise and organizational abilities. He is a member of Committees C-24 on Building Seals and Sealants and D-4.



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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

Chairman: J. M. Scanlon, Jr., U.S. Army Engineer Waterways Experiment Station, CH/CONC Tech. Div., P.O. Box 631 (WESSC), Vicksburg, MS 39180

Vice-Chairman: C. D. Fehnel, Lone Star Industries, Inc., P.O. Box 2880 (411 Putnam Ave.), Greenwich, CT 06830

Secretary: R. A. Hines, Missouri Portland Cement Co., 7711 Carondelet Ave., St. Louis, MO 63105

Membership Secretary: J. W. Meusel, Atlantic Cement Co., Inc., P.O. Box 30, Stamford, CT 06904

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.

Officers

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Vice-Chairman: R. J. Schutz, Protex Industries, 1331 West Evans Ave., Denver, CO 80223.

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Membership Secretary: D. T. Smith, Marquette Cement Manufacturing Co., 2200 First American Center, Nashville, TN 37238