

TESTING FORUM

International RILEM Symposium on Demolition and Reuse of Concrete and Masonry

The need for demolition, repair, and renewal of concrete and masonry structures is rising all over the world. Recent years have demonstrated that numerous natural disasters such as earthquakes in Algeria, Mexico, California, Armenia, and the Philippines, and war activities in Lebanon, Afghanistan, The Gulf Area, Yugoslavia, and other countries have caused violent damage in urban areas. This has led to the need for effective methods for site clearance and reconstruction.

The purpose of this symposium is to discuss the future aspects of demolition and recycling of building materials. Participation is open to planners, contractors, manufacturers, researchers, authorities and other specialists from the construction industry, urban development, disasters mitigation, material science, civil engineering and planning, who are or will be involved in the field of demolition and reuse.

Recent development in the fields of demolition techniques and reuse of waste building materials shows that the theoretical knowledge is available. However, a lack of information exists between theories and their practical use. There is an increasing need for information, especially on standards and guidelines to promote quick and safe demolition and the reuse of concrete and masonry.

As distinct from the first and second international RILEM Symposium held in Rotterdam 1985 and Tokyo 1988, the third symposium will focus on subjects concerning the integration of demolition and recycling operations in the construction and housing industry. The symposium will be held in Odense, Denmark, 25-27 Oct. 1993. Odense is the birthplace of the fairytale author *Hans Christian Anderson*. The city is situated on the island Fyn, which will be connected to the island Sealand by the Great Belt Link.

To establish the best possible basis of discussion, potential authors were requested to submit a 300-word abstract typewritten in English to the Scientific Committee, c/o Symposium Secretariat by 15 Sept. 1992. Acceptance of abstracts was confirmed by 1 Dec. 1992. The Proceedings will be available at the beginning of the symposium.

Symposium themes:

- Standards and guidelines
- Recycling of concrete and masonry waste in urban development
- Recent development of demolition techniques
- Recent development of recycling techniques
- Demolition and recycling of building waste in clearance and reconstruction operations
- Waste management in civil and structural engineering.

In connection with the symposium a tour will be arranged 27 Oct. 1993. The tour will offer visits to:

- An urban renewal site
- "The Recycled House," a new city apartment house primarily built of materials from demolished buildings
- The construction site of the Great Belt Link. Among the structures is a suspension bridge, which with 1624 m between the piers will be the greatest in the world.

The official language of the symposium will be English. Further information is available from Danish Building Research Institute, Symposium Secretariat, att.: Jens Christian Ellum, Dr. Neergaards Vej 15, P.O. Box 119, DK-2970 Hørsholm. Telephone: (+45) 42 86 55 33. Fax: (+45) 42 86 75 35.

James S. Pierce Elected to ASTM Board of Directors

James S. Pierce, chief of the Materials Engineering Branch, Research and Laboratory Services Division of the U.S. Bureau of Reclamation in Denver, Colorado, has been elected to a three-year term on the ASTM Board of Directors, effective 1 Jan. 1993.

He received his B.S. and M.S. degrees from the School of Civil Engineering of Purdue University. Pierce started his professional career with the New York State Department of Transportation. Subsequently, he worked for the Bureau of Reclamation, then Martin Marietta Cement, and returned to the Bureau of Reclamation in 1976. In his current position he is responsible for managing research, laboratory, and project support activities for concrete, corrosion, plastics, and geotechnical technologies.

Pierce is active in ASTM Committees C-1 on Cement, C-9 on Concrete and Concrete Aggregates, C-27 on Precast Concrete Products, and D-18 on Soil and Rock. In addition, he chairs Committee C-9.

He is active in the American Concrete Institute where he is a member of its Board of Direction, Concrete Research Council, Technical Activities Committee, four technical committees, and two board committees. Pierce is also a member of the American Society of Civil Engineers.

Richard D. Gaynor Named 1992 Recipient of the ASTM/SES Robert J. Painter Memorial Award

Richard D. Gaynor, executive vice-president of the National Ready Mixed Concrete Association/National Aggregates Association in Silver Spring, Maryland, is the 1992 recipient of the Robert J. Painter Memorial Award.

Committee C-9 on Concrete and Concrete Aggregates hosted ceremonies formally recognizing Gaynor at their December meeting in Miami. He received the award for distinguished service, exceptional contributions, achievements, and prominent leadership toward advancing standardization.

The original ASTM Standards Engineers Society Award was established in 1956. The name was changed in 1976. It is granted

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for meritorious service to a person contributing the most outstanding service in a given year in the field of standards.

The Mobile, Alabama native and Silver Spring resident earned his B.S. degree from the University of Alabama and his M.S. from the University of Maryland, both in civil engineering.

He began his career with the National Ready Mixed Concrete Association/National Aggregates Association as an associate research engineer in 1954 where he advanced serving the organization in various positions. Committed to extensive research in the field of construction materials throughout his professional life, he has published his research results. Gaynor gained the executive vice-president title in 1984.

For more than three decades, Richard D. Gaynor has been recognized by ASTM and other organizations for his significant contributions of leadership, service, and scholarship to the advancement of voluntary standardization. Involved in five Society committees, he has worked with tests and specifications for road and paving materials, hydraulic cements, concrete and aggregates, evaluation criteria, and occupational health and safety. In 1978, he was named a Fellow of ASTM.

Gaynor has served on the Board of Directors of the American Concrete Institute and is a past recipient of its Anderson Award. He is a member of the Transportation Research Board, the National Academy of Sciences, the American Society of Civil Engineers, and Tau Beta Pi.

ASTM to Sponsor Symposium on Petrography of Cementitious Materials

ASTM will sponsor a symposium on Petrography of Cementitious Materials on 23 June 1993 at the Hyatt Regency Atlanta in Atlanta, Georgia. The symposium is sponsored by ASTM Committee C-9 on Concrete and Concrete Aggregates and Committee C-1 on Cement. The program for the symposium follows.

WEDNESDAY, JUNE 23, 1993

5:00 p.m.

Opening Remarks—S. M. DeHayes, Symposium Co-chairman

SESSION I

Session Chairman: S. M. DeHayes, Symposium Chairman

5:10 p.m.

Petrographic Methods of Specimen Preparation to Identify Cement & Clinker Phases—W. U. Ahmed, Buehler Ltd., Lake Bluff, Illinois, USA

5:30 p.m.

Combination of SEM Backscattered Electron and X-ray Map Images to Identify Phases in Portland Cement—D. P. Bentz and P. Stutzman, National Institute of Standards Technology, Gaithersburg, Maryland, USA

5:50 p.m.

Microscopical Interpretation of Kiln Conditions and Raw Feed Characteristics—D. H. Campbell, Construction Technologies Laboratories, Skokie, Illinois, USA

6:10 p.m. BREAK

6:15 p.m.

The Microstructural Approach to Solving Clinker Related Problems—S. L. Sarkar, University of Sherbrooke, Sherbrooke, Quebec, Canada

6:15 p.m.

The Development of a Standard Method for the Quantitative Evaluation of Phases in Portland Cement Clinker by Microscopical Point-Count Procedure—W. Wiegand, Radian Corporation, Austin, Texas, USA

6:55 p.m.

Scanning Electron Microscopy Applied to the Petrography of Cement and Concrete—P. E. Stutzman, National Institute of Standards Technology, Gaithersburg, Maryland, USA

7:15 p.m. BREAK

SESSION II

Session Chairman: D. Stark, Symposium Co-Chairman

7:30 p.m.

Determination of Causes of Concrete Deterioration by Electron-Optical Techniques—R. J. Lee and J. Skalny, R. J. Lee Group, Inc., Monroeville, PA

7:50 p.m.

The Identification and Measurement of Entrained Air in Concrete Using Image Analysis—J. C. Dolan, Cormix Construction Chemicals, Warrington, Cheshire, UK; J. Cahill and P. W. Inward, Unilever Research Port Sunlight Laboratory, Wirral, Merseyside, UK

8:10 p.m.

Petrographic Examination of Reinforced Concrete from Cathodically Protected Bridge Structures—D. R. Lankard and N. J. Seaglione, Lankard Materials Laboratory, Columbus, OH

8:30 p.m. BREAK

8:35 p.m.

Studies of the Effects of Admixtures on the Aggregate-Paste Interfacial Region—M. A. Taylor and D. G. Howitt, University of California, Davis, CA

8:55 p.m.

The Measurement of Hardened Concrete Water/Cement Ratio on Fluorescent Thin Sections—S. Wirgot, C. R.I.C., Brussels, Belgium

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9:15 p.m.

Relationship Between Petrography of Microstructure of Transformed Natural Anhydrite and Some Chemical Activators—
A. Ayman A. Kamel, Building Research Institute, Cairo, Egypt

9:35 p.m.

Closing Remarks—D. Stark, Symposium Co-Chairman

9:40 p.m. **SYMPOSIUM ADJOURNS**