

TESTING FORUM

Call for Papers

Symposium Va on Microstructure of Cement-Based Systems

The field of cement-based materials has evolved from primary concern with concrete to include a proliferating variety of advanced materials for special purposes. At the same time, research on microstructures of cement-based materials has developed to incorporate new methodologies, and significant advances have been made in computer-based microstructural modeling. This symposium aims to provide a forum for studies of the microstructures of cement-based systems and of the relationships between microstructure and performance.

Papers are requested relating to the following topics:

- advanced methods and new instrumentation for microstructural characterization, with special emphasis on digital-image-analysis methods;
- computer-based microstructural models, especially papers including comparisons between model and directly observed microstructures;
- microstructures of novel cement-based systems, involving alternate chemistries, or of biomaterials or hazardous waste forms;
- high-performance cement systems: relationships between performance and microstructure;
- microstructural aspects of durability problems and changes associated with them; and
- microstructures at interfaces (as part of a joint symposium with Symposium Vb).

A joint session is planned with Symposium Vb, Bonding and Interfaces in Cementitious Materials.

Symposium Organizers

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MRS has issued a call for papers for the different symposia to be offered at the week-long meeting from 28 Nov. to 2 Dec. 1994 in Boston, MA.

An array of short courses will complement the technical program. These courses will address the latest techniques in the analysis, alteration, and preparation of materials related to the symposium topics. A major exhibit will also be offered.

Abstracts of contributed papers must be received at MRS Headquarters no later than 20 June, 1994. For further information, contact David Sours at the Materials Research Society, Meetings Department, 9800 McKnight Road, Pittsburgh, PA 15237; phone: (412) 367-3003; fax: (412) 367-4373.

Seattle Washington Host to 1994 IEEE Cement Industry Technical Conference

The 36th consecutive Institute of Electrical and Electronics Engineers (IEEE) Cement Industry Technical Conference (CITC) was held in Seattle, WA from 29 May through 2 June, 1994.

The 1994 IEEE-CITC offered concurrent technical tutorials covering Kiln and Mill Optimization Based on Case Studies by Fuller Company, and Large and Small Motor Applications in Cement Operations by General Electric. The General Practice Group sponsored a panel discussion entitled "Designing Cement Plants of the Future to Meet the Most Stringent Environmental Codes." Three prominent cement plant engineering companies presented new concepts in plant design that are meant to comply with the strictest environmental standards.

The IEEE-CITC is the largest annual international conference for cement industry technical and managerial personnel. The five-day conference attracted nearly 1000 delegates, from cement manufacturers, suppliers to the cement industry, and industry specialists from around the world. The conference provided an opportunity for technical information exchange on the development and application of a wide range of equipment and processes for cement manufacturing and related industries including: electrical systems, apparatus devices and machines, process controls and instrumentation, and energy management.

Twenty-five technical papers were presented at the conference covering key areas of interest to the cement industry.

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Power Generation and Distribution

- “Service Continuity: A Trump Card for Productivity?” by Marcel Chevalier and Terence Hazel, Schneider Electric/Merlin Gerin
- “New U.L. Classification for Silicone Transformer Fluid,” by James L. Goudie and Sharon K. Mort, Dow Corning Corp.
- “IEC Type 2 Coordination for Short Circuit Protection of Motor Starters,” by Paul E. Alwin, Allen-Bradley Company
- “The Basics of Power Cable” by W. F. “Buddy” Powers, Jr., P.E., Southwire Company

Drives and Related Products

- “Influence of the Drive of a High-Pressure Roller Press on the Machine’s Operational Efficiency,” by Horst Herchenbach, Zementwerk Eiberg, Austria
- “Roll Crusher with Variable Speed DC Drive,” by Reinhold Errath, ABB Process Automation
- “Speed Controlled AC-Drives for Roller Presses,” by Dr. Martin Deussner and Wolf-Diethard Grünberg, Humboldt Prozessautomation GmbH
- “Motor Applications for Hydraulic Roll Crushers,” by Michael P. Regan and Gary R. Kotz, Fuller International, Inc.

General Practices

- “Designing Cement Plants of the Future to Meet the Most Stringent Environmental Codes,” Panel Discussion by Ove Lars Jepsen (Fuller), Michael von Seebach (Polysius), Geoff Conroy (KHD)
- “Cement Kiln Dust (CKD) Methods for Reduction and Control,” by Grank Kessler, Lafarge
- “Impact of NAFTA (North American Free Trade Agreement) and GATT on the North American Cement Industry,” by Robert Roy, R.O.I.

- “Ventless Grate Coolers—Now Practical?” by Dr. J. Hardner (Author), presented by Helmut Wallis, Claudius Peters
- “Experience with Clinker Grinding in Roller Mills,” by Mike Knoificek, Fuller
- “The Impact of Title V Permit Fees on the Cement Industry,” by Michael Cawthray, Holnam
- “Economics of Waste Fuel Burning,” by Alan E. Redeker, Medusa

Automation

- “Process Control in Greenfield Pacific Rim Super Plants,” by Olivier Peyro-Saint Paul and Poul Skjoth, FLS Automation, Denmark
- “ESSROC Materials Quick and Inexpensive Approach to Automation,” by Stuart Guinther, Essroc Materials
- “A Fully Automated Cement Storage and Dispatch Terminal,” by Joern Knabbe, Claudius Peters AG, Germany and Carlos Garcia Luna, Cemento Cruz Azul, Mexico
- “Weighing Feeder Upgrades and Retrofits,” by Paul Farley, CTS Autoweigh
- “Experience in Kiln Operation with LINKman Graphic,” by Rene Hasler, Holderbank Management & Consulting Ltd. and David Haspel, ABB LINKman Systems Ltd.

Environmental Maintenance and Safety

- “The Role of Public Relations in the Cement Industry,” by Bob Kahn, R. D. Kahn & Associates
- “New Design Criteria for Rotary Kilns,” by Mark Terry, Polysius
- “Placebo Back Brace and the Hawthorne Effect,” by Carl Metzger, Vulcan Materials Company
- “MACT in the Cement Industry,” by Doug Sweeney, Ash Grove Cement Company
- “Consequences of CO₂ Caps on the Cement Industry,” by Brenda Pulley, American Portland Cement Alliance

Additional Information for Authors

The *Cement, Concrete, and Aggregates* (CCA) journal is a bi-annual publication sponsored by ASTM technical committees C-1 on Cement and C-9 on Concrete and Concrete Aggregates with support from C-13 on Concrete Pipe and C-27 on Precast Concrete Products. Each published paper and technical note has been peer-reviewed. Papers and technical notes are open to brief written comments in the Discussion section of the Journal, which also includes authors' written responses.

The Technical Editor may consider a paper submitted to the Journal as a Technical Note if: it gives a reasonably brief description of ongoing studies with or without providing interim, tentative data, and conclusions, or both; it reports phenomena observed in the course of research requiring further study; it provides mathematical procedures for facilitating reduction and analysis of data; or it reports promising new materials prior to undertaking extensive research to determine their properties.

The decision as to whether a manuscript is published as a paper or a technical note resides with the Technical Editor.

The guidelines that follow describe our manuscript selection, peer-review, revision, and publication processes. Following these guidelines will ensure expeditious handling of submitted material.

Submission

The name, mailing address, position, affiliation, and telephone and fax number of each author must be supplied in a cover letter. The submitting author is to provide the names, affiliations, addresses, and telephone numbers of five to six individuals who are qualified to review impartially the paper and the research leading to it, and who are not employed at the same institution or company as any of the authors. While these names may or may not be used for the review, we will add them to our pool of potential reviewers. Also, a statement needs to be included that the paper has not been published and is not under consideration for publication elsewhere. All permissions for previously published material used in the paper must be submitted in writing at this time.

The submitting author must also affirm that all those listed as co-authors have agreed (a) to be listed and (b) to submit the manuscript to ASTM for publication.

Five copies of the manuscript with clear copies of each figure are required. Original art work and computer disks should accompany the final revision.

Manuscript Instructions*

Word Processing Instructions

The hard-copy text can be produced on any letter-quality printer. Text is to be printed double-spaced with left and right

margins of 1 in. (25.4 mm) using left justification. New paragraphs are to be indented five spaces, and end-of-line returns are not to be used.

The *revised* manuscript is to be sent on a 5¹/₄ in. (133 mm) or 3¹/₂ in. (89 mm) disk, preferably in WordPerfect for Windows 5.2, with the corresponding hard copies. ASTM can convert from other wordprocessing packages as well.

Abstract and Keywords

An abstract of 100 to 150 words and a list of 5 to 10 keywords that can be used to index the manuscript are required.

Trademarks

Commercialism is to be avoided by using generic terms whenever possible. Trademarks and trade names are to be capitalized if their use is unavoidable.

SI Units

Society policy requires the use of SI units in all publications (including figures and tables). If in.-lb. units must be used to describe materials and present test results, SI equivalents must follow in parentheses. (See ASTM Standard for Metric Practice E380 for further information on SI units.)

Figures

Each figure is to be simple and uncluttered. All illustrations are to be placed together at the end of the manuscript with a separate sheet of figure captions. Consecutive Arabic (not roman) numerals are required. The size of type in illustrations must be large enough to be legible after reduction. All lettering, lines, symbols, and other marks must be drawn in black India ink on white paper. Computer graphics must be produced by a laser printer. Photographs must be high-contrast black and white. **SCALE MARKERS MUST BE SHOWN ON ALL PHOTO-MICROGRAPHS AND ALL FIGURES THAT ARE REPRESENTATIONS OF EQUIPMENT OR SPECIMENS.**

Tables

All tables are to be placed together at the end of the manuscript, preceding the illustrations. Tables are to be numbered in Arabic and are cited in numerical order in the text. It is better to use several small simple tables than one large, complex table.

References (New Reference Style)

References shall be cited in the text by author's last name and date of publication. References shall be listed together at the end of the text in alphabetical order by author's last name. They

*For complete manuscript instructions, which include a sample manuscript, call Barbara Stafford, Administrative Assistant, ASTM Journals, 215/299-5424 or fax at 215/299-5511.

must contain enough information to allow a reader to consult the cited material with reasonable effort.

Sample References

- Anderson, D. E., June 1984, "Surface Impoundment of Soil Liners," *Geotechnical Testing Journal*, Vol. 6, No. 2, pp. 30-41.
- Hancox, W. T. and Smith, J. P., 1988, "Progress in the Nuclear Fuel Waste Management Program," *Proceedings, Second International Conference on Radioactive Waste Management*, Winnipeg, Canada, Canadian Nuclear Society, Toronto, pp. 1-9.
- Miura, S., Woo, S.-T., and Kirk, R. T., 1990, "A Sample Preparation Method and Its Effect on Static and Cyclic Deformation," *Soils and Foundation*, Vol. 22, No. 1, pp. 61-77.
- Taylor, S. W., 1986a, *Fundamentals of Soil Mechanics*, Vol. I, John Wiley and Sons, New York.
- Taylor, S. W., 1986b, *Fundamentals of Soil Mechanics*, Vol. II, John Wiley and Sons, New York.

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Manuscript Review

Each new manuscript is sent to the Technical Editor for consideration. If the Technical Editor finds that the manuscript fits the scope of the journal, will be of interest to the readership, and is well written, the paper is processed for peer review.

Three or more reviewers, selected by the Technical Editor, review each paper for technical content, originality, logical conclusions, sound data, reproducibility of results, and clarity of presentation; two or more reviewers provide reviews of each technical note. Their comments are compiled and evaluated. The reviewers' anonymous comments and any other comments from the Technical Editor or his designee are then returned to the author for revision.

The author must submit five copies of the revised manuscript with an annotated (highlighted) version of the paper indicating clearly where each revision has been made and identifying the reviewer's comment to which the author is responding. Changes in the text including all MANDATORY reviewers' comments must be addressed explicitly on the "authors' response form"

provided during revision, as well as any explanation why a change was not made.

The Technical Editor will evaluate all revised manuscripts and make the final decision regarding publication in the Journal. The Editor may: (1) accept the revised manuscript for publication, (2) require further revision or explanation, or (3) reject the revised manuscript. A revised manuscript may be sent for re-evaluation to a reviewer who has found major flaws in the original manuscript.

Awards

Papers are eligible for the following ASTM awards: the Charles B. Dudley Medal (for outstanding papers published by ASTM), the Richard L. Templin Award (for outstanding papers on new and useful testing procedures and apparatus), the Sanford E. Thompson Award (for papers on concrete and concrete aggregates), and the P. H. Bates memorial Award (for papers on hydraulic cement).

Editorial Review by ASTM

Each accepted paper is edited by the ASTM staff for style, organization, and proper English usage. The edited manuscript is returned to the author before typesetting. The typeset page proof is also sent to the author and the Technical Editor for final review prior to printing.

If ASTM does not hear from the author by the time designated for return of the edited paper and page proof, or both, ASTM will proceed with the publication process.

Book Reviews

ASTM receives books from other publishers requesting book reviews. The books are available to potential reviewers in exchange for publishable reviews. Book reviews are screened and edited by the Technical Editor and staff without peer review.

Testing Forum and Announcements

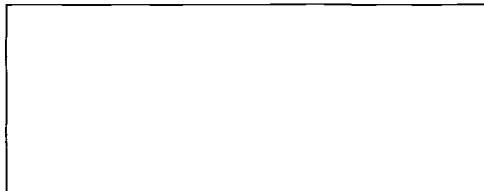
Anyone having interesting test tips or announcements should submit a brief description to the Testing Forum. Such contributions are screened and edited by the Technical Editor and staff without peer review.

Dr. R. Doug Hooton
Technical Editor

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