

TESTING FORUM

Saylor Cement Museum Receives \$100 000 Keystone Historic Preservation Grant

The Saylor Cement Museum, on North 2nd Street in Coplay, Pennsylvania, has received the Lehigh County Historical Society's Keystone Historic Preservation grant. The grant project at Saylor will preserve collections at the museum through improvement of environmental conditions.

The Saylor Cement Museum is the nation's only historic site devoted to the people and processes that made "liquid rock" a vital building material for the Industrial Revolution. Today the museum's nine vertical Schoefer kilns, built in 1892 and 1893 by the Coplay Cement Company, are the only kilns of their type known to exist. Exhibits inside the museum discuss the cement-making process, David O. Saylor, who received the first U.S. Patent for Portland cement, the cement workers and working conditions, recent developments in the industry, and the importance of Lehigh Valley cement to the rest of the world.

The grant project's objective of improving the environment at the site ensures preservation of the kilns and the cement collections. Originally, the kilns were encased in an outer structure, and they were continuously heated. When the kilns stopped producing cement in 1904 their heat source ceased. It is then that moisture problems began, which were further aggravated by removal of the outside structure. In 1975, the kilns were capped and waterproofed in an attempt to preserve them, and a museum space was created at the bottom by enclosing the space between the kilns and adding a Plexiglas roof. However, the environmental conditions created by this construction proved detrimental to the kilns as well as to the exhibits in the new museum area.

Over the past five years, the Lehigh County Historical Society conducted four surveys that included assessments of the Saylor Cement Museum. In 1989, an engineering survey produced an Emergency Stabilization Plan for Saylor. In 1991, the federal Institute of Museum Services funded a general conservation survey and a long-range conservation plan. At Saylor, moisture and birds/bats entering holes in the Plexiglas dome were problems. Last year, the federal Institute of Museum Services funded an environmental survey at all historical society-administered sites. Each of these surveys applied the expertise of different specialists to the very complex problems at Saylor Cement Museum. Consensus was to introduce ventilation and heating systems, and retrofit waterproofing systems to provide enhanced environmental control and a drier environment within the complex.

The newly-funded environmental improvement project for the Saylor Cement Museum will implement a two-part plan. The first step involves correcting any problems of unwanted water sources and creating a sealed environment for the museum building. The second step involves modifying the HVAC system to control temperatures and humidity year-round.

The Saylor Cement Museum is open to the public for tours Saturday and Sunday, 1 to 4 p.m., May through September. For more information, please phone the historical society office at (610) 435-4664.

Call for Papers

Symposium on Design and Application of CLSM (Flowable Fill)

Papers are invited for a Symposium on Design and Application of CLSM (Flowable Fill), sponsored by ASTM Committee D-18 on Soil and Rock and its Subcommittee D18.15 on Stabilization with Admixtures. The symposium will be held June 20-21, 1997 in St. Louis, Missouri in conjunction with the June 15-18, 1997 standards development meetings of Committee D-18.

The objective of the symposium is to present new design procedures, new applications, and installation innovations for "Controlled Low Strength Materials (CLSM)," and to discuss the need for new ASTM standards. Also known as "flowable fill," "controlled density fill," "soil-cement slurry," and other names, this mixture of cementitious material, soil, water, and sometimes admixtures is used in place of compacted soil backfill. The most common use of CLSM is for buried pipe embedment and backfill because it significantly reduces the construction time.

Original papers are solicited on the following topics:

- *Mix Design and Ingredients*
types of soils or other materials, admixtures, new test methods, experimental results, use of recycled materials, bleed water control
- *Applications*
pipelines, tanks, structure backfill, new applications, specification language, need for design methods
- *Construction Control and Inspection*
new test or inspection techniques or methods, strength testing, flowability, set time, precision and bias values
- *Installation, Equipment, and Diggability*
innovations in installation methods and equipment, measuring diggability, flotation control, construction management
- *Case Histories*
cost studies, successes, failures, difficulties
- *Research and Development Needs*
needed design methods, applications, testing procedures, equipment

Prospective authors must submit a title, a 250 to 300 word abstract, and the ASTM Paper Submittal Form below by **June 30, 1996**. The abstract must include a clear definition of the objective and approach of the work discussed, pointing out material that is new, and present sufficient details regarding results. The presentation and manuscript must not be of a commercial nature nor can it have been previously published. Because a limited number of abstracts will be accepted, be sure that the abstract is complete to allow for careful assessment of the paper's suitability for this symposium. ASTM may print and distribute the abstracts at the symposium with the approval of the symposium chairman.

The title, abstract, and the ASTM Paper Submittal Form should be submitted to Amster K. Howard, 1562 S. Yank Street, Denver, CO 80228; Tel: (303) 989-5187. Additional Paper Submittal Forms are available from Mr. Howard or from Dorothy F. Savini, Symposia Operations, ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959; Tel: (610) 832-9677. Authors will be

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notified of their papers' acceptance for presentation at the symposium by August 1, 1996, by Mr. Howard. Authors will be expected to give 20 to 25 minute presentations at the symposium.

While a Special Technical Publication (STP) based on this symposium is anticipated, the Committee on Publications (COP) will consider the final selection of abstracts for approval as a book. After the COP approves the publication of an STP, the ASTM staff will send you manuscript guidelines. All accepted manuscripts to be peer-reviewed for the STP will be due at ASTM by **December 15, 1996**. This date will be strictly enforced. Papers not received by the due date will not be published in the STP but may be

forwarded to an appropriate ASTM journal for consideration by the journal editor.

The main author (the author corresponding with the ASTM publications staff) of each published paper will receive a complimentary copy of the STP. All published authors will have the opportunity to purchase reprints of their papers at a nominal cost.

More information is available from Symposium Chairman Amster K. Howard at the above address or from Co-Chairman Jenny L. Hitch, Pozzolan International, Island Corporate Center, 7525 SE 24th Street, Suite 630, Mercer Island, WA 98040; Tel: (206) 232-9320, ext. 0031; Fax: (206) 232-9501.

Additional Information for Authors

The *Cement, Concrete, and Aggregates* (CCA) Journal is a bi-annual publication sponsored by ASTM technical committee 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 Editor-in-Chief 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/or conclusions; 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 Editor-in-Chief.

The guidelines below 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 is 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 5.1, with the corresponding hard copies. ASTM can convert from other word-processing packages as well.

Abstract and Keywords

An abstract of 100–150 words and a list of 5–10 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.

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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 PHOTOMICROGRAPHS 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

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

- Anderson, D. E., 1984, "Surface Impoundment of Soil Liners," *Geotechnical Testing Journal*, Vol. 6, No. 2, pp. 30–41.
- Taylor, S. W., 1986, *Fundamentals of Soil Mechanics*, Vol. 1, John Wiley and Sons, New York.
- Willis, T. F., 1949, Discussion on "The Air Requirement of Frost Resistant Concrete," *Proceedings of the Highway Research Board*, Vol. 9, pp. 184–202.

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Three or more reviewers, selected by the Editor-in-Chief, 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 Editor-in-Chief or his designee are then returned to the author for revision.

The author must submit four copies of the revised manuscript including an annotated (highlighted) version of the paper indicating clearly where each revision has been made and identifying the reviewer's comment to which the revision is responding.

The Editor-in-Chief 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.

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 Editor-in-Chief 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/or page proof, ASTM will proceed with the publication process.

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Dr. R. Doug Hooton
Editor-in-Chief

*For complete manuscript instructions, which include a sample manuscript, call Barbara Stafford, Administrative Assistant, ASTM Journals, 610/832-9621 or FAX 610/832-9623.