

INTERNATIONAL SOCIETY FOR SOIL MECHANICS AND GEOTECHNICAL ENGINEERING



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Administrative report of TC33 – Scour of Foundations

Compte rendu technique de la No. CT 33 – Affouillement des fondations

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1 TERMS OF REFERENCE

1. To promote and enhance professional activities in geotechnical engineering related to scour of foundations in general and scour at bridges in particular.
2. To sponsor sessions on scour of foundations at future ISSMGE international and regional conferences.
3. To promote international co-operation in research and dissemination of research results on scour Problems.
4. To develop international guidelines for scour design, monitoring, and counter-measures.
5. To facilitate the development of an electronic data base of failures and successes.

2 ACTIVITIES INITIATED

Committee Members: Professor Ishihara of Japan created this committee in 1997 and asked Professor Briaud of the USA to chair the committee. Because this was a new committee the first task was to establish the membership. In 1997 and 1998, Professor Briaud of the USA worked with the Secretary General (Professor Parry of the UK) to solicit members for this new committee.

Web Site Our committee initiated in 1998 a web site for the committee.

International Symposium on Scour of Foundations Our committee initiated in 1998 an International Symposium on Scour of Foundations to take place in Melbourne on November 19, 2000 at the occasion of the Geo-2000 International Conference.

Workshop on Scour of Foundations at Istanbul ICSMGE In 1999, our committee initiated a Workshop on Scour of Foundation to take place at the International Conference on Soil Mechanics and Geotechnical Engineering in Istanbul.

First International Conference on Scour of Foundations In 1999, our committee decided to organize the First International Conference on Scour of Foundation. The date would be 2002 and the place was to be decided at a future committee meeting.

Promote International Dissemination and Cooperation in Research In 1998, our committee set this goal to help all those who cannot attend conferences and are in need of knowing the latest techniques and discoveries on the topic of Scour of Foundations.

Develop International Guidelines for Scour In 1998, our committee decided to try to unify the worldwide rules for scour design, monitoring, and countermeasures.

Electronic Database of Failures and Successes In 1998, our committee decided to try to accumulate a base of data which would be useful to anyone who would like to learn more about real case histories where scour was an issue.

3 ACTIVITIES COMPLETED

Committee Members Our committee now has 29 members from 24 countries. We also have 13 corresponding members, and 13

additional contacts. They are all listed on our web site (<http://www.civil.tamu.edu/research/scour-tc33/>) that is maintained at Texas A&M University.

Web Site The ISSMGE TC-33 web site address is <http://www.civil.tamu.edu/research/scour-tc33/>. The web site has information on the members, the objectives of the committee, the conferences that our committee organizes, references in scour of foundations, and photographs of bridge failures.

International Symposium on Scour of Foundations This Symposium took place in Melbourne at the occasion of the Geo-Eng International Conference. The Chair of the Organizing Committee was Professor Safiullah from Bangladesh, the Co-Chair was Professor Melville from New-Zealand. Along with their committee members they are responsible for a successful symposium attended by 50 engineers. A proceeding volume including 32 articles on the topic was prepared and was distributed at the symposium. Copies can be obtained by checking the TC-33 web site. The symposium cost \$6000 to hold and generated \$4000 in revenue. The \$2000 loss was paid for by Texas A&M University and is considered as an investment in the future of the Committee. The sale of left-over proceedings would help cover some of the deficit. The reference of the proceedings is:

Briaud J.-L., editor, 2001, "Scour of Foundations", Proceedings of an International Symposium held in Melbourne, Australia on November 19, 2001, published by the Department of Civil Engineering, Texas A&M University, College Station, Texas, USA (briaud@tamu.edu).

4 CONTINUING ACTIVITIES

Workshop on Scour of Foundations at Istanbul ICSMGE A workshop on Scour of Foundations will be conducted on August 28, 2001 at the occasion of the 2001 International Conference on Soil Mechanics and Foundation Engineering in Istanbul, Turkey. Dr. Heibaum from Germany is the Chair of the Committee in charge of that effort and has already set up a web site (<http://www.baw.de>). The information is also available on the TC-33 web site. Dr. Heibaum and his committee are developing the program and will collect copies of the contributions to assemble them. The goal is to attract as many geotechnical engineers at that workshop and get them interested in the topic of scour of foundations.

First International Conference on Scour of Foundations The date will be in the Fall of 2002 and the place will be Texas A&M University, College Station, Texas, USA. Professor Briaud of the USA was asked and accepted to Chair that effort. An announcement for the three-day event can be found at the web site (<http://www.civil.tamu.edu/research/scour-tc33/>) under the conference button. At the occasion of this conference a prediction event will be organized. Proceedings will be available at the conference and a separate prediction event volume will also be published.

Promote International Dissemination and Cooperation in Research A section on references has been created in the web site. It will address design, monitoring, and countermeasures.

Develop International Guidelines for Scour Dr. Richardson of the USA was asked and accepted to take the lead on this very important task. He will form a subcommittee to work on this committee objective.

Electronic Database of Failures and Successes This objective deals with the development of an electronic database of failures and successes. After discussion lead by Professor Chiew of Singapore at the Melbourne meeting, the committee decided that this objective represented a large amount of work. It was decided that the other objectives should take priority. Action on this objective was delayed until further notice.

Web Site Maintenance of the web site will continue.