

TC Title	TC33: Geotechnics of Soil Erosion	
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Terms of Reference:		
<p>International Society for Soil Mechanics and Geotechnical Engineering Technical Committee No. 33: Geotechnics of Soil Erosion</p> <p>Chair: Professor J.-L. Briaud Texas A&M University College Station, Texas, USA briaud@tamu.edu</p>		
Terms of Reference		
<ol style="list-style-type: none"> 1. The erosion-advanced organizations (academia, government, private firms) in selected countries share their knowledge on Geotechnics of Soil Erosion including practice and applied engineering research with other countries interested in the topic. Deliverable = regional workshops, web pages. Schedule = yearly 2. Exchanges take place on the international research progress. Deliverables = conferences and proceedings. Schedule = every 2 to 3 years 3. Global guidelines are developed Deliverables = reports, web based documents. Schedule = about 3 years (Osaka) 4. A new web site is developed Deliverables = a web site. Schedule = as soon as the new members are identified 		
Control Group Members		
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Scour of Foundations		
<p>Professor Chiew Yee Meng (Singapore) Email: CYMCHIEW@ntu.edu.sg</p>		
Dam Erosion		
<p>Dr. George Annandale (USA) Email: george.annandale@enghydro.com</p>		
Surface Erosion		
<p>Professor Geoffrey Blight (South Africa) Email: Blight@civil1.civil.wits.ac.za</p>		

Activities in Period 2001 – 2003 (e.g. Meetings, workshops, conferences etc)**First International Conference on Scour of Foundations**

This three-day conference took place at Texas A&M University in College Station, Texas USA on November 17-21, 2002. 27 countries were represented. 200 people attended. 85 papers were presented including 9 plenary invited lectures and 16 break-out invited lectures. The Terzaghi Lecture and the 10 th Buchanan Lecture were delivered during the conference. The 3 volume set of proceedings were ready at the time of the conference and presented to the participants in the form of three books and a smart CD. The CD won the Award of Excellence from the International Association of Business Communicators. The proceedings are available from Professor Briaud (briaud@tamu.edu) for \$200 plus shipping charges.

The conference was sponsored by ISSMGE. The Texas Transportation Institute took the financial responsibility for the conference. The Federal Highway Administration of the USA sponsored a very successful prediction event. The National Science Foundation of the USA contributed to the production of the proceedings. Many other sponsors contributed in kind by sharing their web sites and their membership lists (Transportation Research Board, International Association of Foundation Drilling, Deep Foundation institute, Institutes of ASCE: GI, EWRI, SEI, COPRI). This significant sponsorship allowed to keep the cost of the conference below \$500 even though all meals and entertainment were included: morning, lunch and evening.

Many lessons were learned as various countries shared their knowledge. The main topics were prediction of scour depth, monitoring of scour development, and countermeasures. The chairman of the conference drew some conclusions at the end of the conference and made some recommendations for future work. A reception followed at Professor Briaud's house for all participants.

Meeting of the TC33 Committee

The committee met in College Station, Texas, USA on November 17, 2002. 14 were in attendance. The minutes of that meeting are sent separately. The committee which had been entitled "Scour of Foundations" from 1997 to 2001, was given a larger topic and responsibility in 2001 when it was called "Geotechnics of Soil Erosion".

The committee felt that it was necessary to organize three subcommittees to properly manage the large topic: Scour of Foundations (chaired by Professor Chiew of Singapore), Dam Erosion (chaired by Dr. Annandale of the USA), and Surface Erosion (chaired by Professor Blight of South Africa). Each subcommittee has submitted their terms of reference to Professor Briaud. The next step is to organize the membership of each subcommittee.

The committee accepted a proposal from Professor Chiew and his colleagues to host the 2nd International Conference on Scour and Erosion (ICSE-2) in Singapore in the fall of 2004. The scope of that conference is expanded from the first conference which was limited to scour only. The organization of that conference is already well underway.

Progress/experience with web-based communication platform *(NB not all TCs have web platforms but these will be available for all within the new ISSMGE website due for launch early May 2003)*

Our means of communications is through the email system. Any committee member who wishes to address all other members sends an email to the Chair who then relays it to the membership. This allows for a certain amount of control on what is being distributed to the membership and avoids the SPAM overload that many other systems include.

We have a web site which needs to be updated. This will be done shortly.

<http://www.civil.tamu.edu/research/scour-tc33/>

The committee also has a link on the ISSMGE web site but this link is incorrect or more exactly incomplete.

http://www.issmge.org/Technical_Committees/tc_record.cfm?TCID=33

Please correct it at your earliest convenience.

Other links and web sites where the TC33 committee is active include

<http://tti.tamu.edu/conferences/scour>

<http://www.civil.tamu.edu/Research/Scour-tc33/con2.htm>

Future Planned Activities

Second International Conference on Scour and Erosion – ICSE-2

ICSF-1 took place in the fall of 2002 at Texas A&M University in the USA. ICSE-2 will take place in the fall of 2004 in Singapore. Professor Chiew is the Chairman of the Conference which is well under way. We would appreciate to have ICSE-2 advertised on the ISSMGE web site. Let us know what we need to do.

Web Site Improvement.

I am still confused as to the web site situation for the society. ISSMGE has a very nice and very well organized web site but I wonder if the TC web sites are up to the individual committees or if there is a global mechanism with guidelines to be followed. Please advise.

Sub-Committees

We have created three subcommittees as described under “past activities” and three chairs have been selected. Each sub-committee has submitted to me a set of terms of reference for their sub-committee. These terms of reference will soon be posted on our web site and the general membership will be asked what sub committee they wish to work with.

Membership.

We are at the mid point of the mandate of our committee and I wish to do a membership review including adding new members. I have sent an email to all those attending the ICSF-1 asking them to apply for membership in the committee and telling them how to do so.

State of the Knowledge

We have considered writing a State of the Art report and develop some international guidelines for scour. A decision on this task was delayed; we agreed to start to assemble a list of references from each member country and post it on the web site. Our first effort can be found at <http://www.civil.tamu.edu/research/scour-tc33/> under the button “references”.

Publications

ICSF-1 proceedings

The three volume set of hard copy proceedings for the very successful ICSF-1 conference is on sale by contacting Professor Briaud (briaud@tamu.edu). The cost is \$200 plus shipping charges. It includes the CD which won the IABC award of excellence; this CD has an automatic search engine and is very easy to use.

Planned “publication” for ICSMGE Osaka 2005 (e.g. *State-of-the-Art report, recommendations for practice etc.*)

Request for Osaka

We have requested to be given some exposure at the Osaka conference. Our committee needs such exposure because while the topic is extremely important (bridges collapsing, people dying) the topic is not well recognized by the geotechnical community. We would like to know if we can get exposure in front of the general audience at Osaka to present a lecture on “Geotechnics of Soil Erosion”. This would go a long way to inject even more energy into our committee. We could base the lecture on the results of ICSF-1 and ICSE-2 as well as the work of the committee and the subcommittees over the last 6 years. Please advise.