

# INTERNATIONAL SOCIETY FOR SOIL MECHANICS AND GEOTECHNICAL ENGINEERING



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# ISSMGE TC 33. Geotechnics of Soil Erosion SIMSG CT 33. Geotechnique de L'Erosion des Sols

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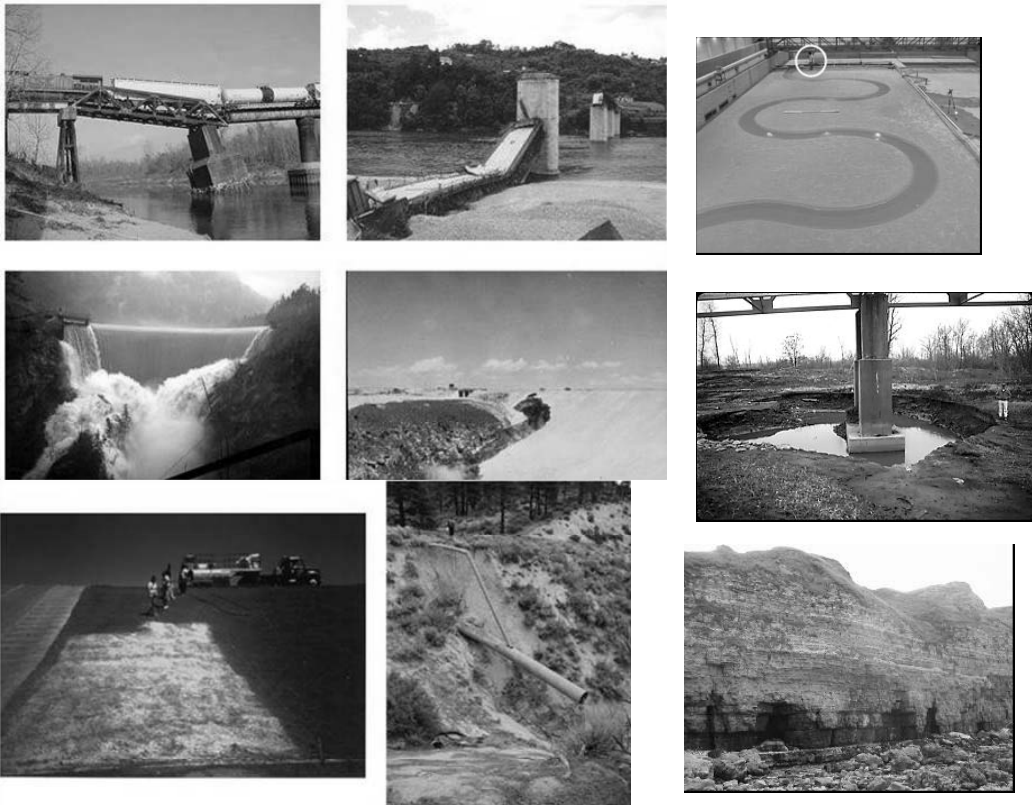
## ABSTRACT

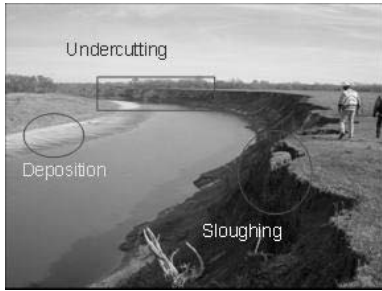
This is the report of activities from 2005 to 2009 for the Technical Committee number 33 (TC33) of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) entitled « Geotechnics of Soil Erosion ». This committee was created in 1997. From 2005 to 2009, TC33 hosted 2 international conferences: in 2006 in Amsterdam and in 2008 in Tokyo. A set of proceedings is available for each conference which are named International Conferences on Scour and Erosion (ICSE) and occur every two years. The 2010 conference (ICSE-5) will be in San Francisco, USA and the 2012 conference (ICSE-6) in Paris, France. The committee met in 2006 in Amsterdam and in 2008 in Tokyo. A series of short courses were also offered during the 2005-2009 period. The web site captures most of the activities of the committee at <http://ceprofs.civil.tamu.edu/briaud/Scour-tc33>

## RÉSUMÉ

Cet article décrit les activités de 2005 à 2009 du Comité Technique numéro 33 (CT33) de la Société Internationale de Mécanique des Sols et de la Géotechnique (SIMSG) qui se nomme « Géotechnique de l'Erosion des Sols ». Ce comité existe depuis 1997. Entre 2005 et 2009, le CT33 a organisé 2 conférences internationales : une en 2006 à Amsterdam et une en 2008 à Tokyo. Les comptes rendus sont disponibles pour chacune de ces conférences qui s'appellent Conférences Internationales sur L'Affouillement et l'Erosion (CIAE) et qui ont lieu tous les 2 ans. En 2010, CIAE-5 sera à San Francisco, USA et en 2012, CIAE-6 sera à Paris, France. Le comité s'est réuni à Amsterdam en 2006 et à Tokyo en 2008. Une série de Journées d'Etude a aussi été organisée entre 2005 et 2009. Le site d'internet donne l'information sur les activités générales du comité à <http://ceprofs.civil.tamu.edu/briaud/Scour-tc33>

Keywords : Technical Committee number 33 (TC33), International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), Geotechnics of Soil Erosion, Activity report 2005-2009





## 1 TOPICS COVERED

As shown in the above photos, the topics covered by the committee include:

- Scour of Foundations (for example scour at bridges or offshore platforms)
- Dam Erosion (for example embankment erosion, wave erosion, meander migration, cliff erosion, and construction site erosion)
- Surface Erosion (for example embankment erosion, wave erosion, meander migration, cliff erosion, and construction site erosion)

## 2 MEMBERSHIP

*Chairman and Host Society:* Prof. Jean-Louis Briaud (USA)  
*Secretary:* Dr. Michael Heibaum (Germany)

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 Gijs Hoffmans (Netherlands)  
 Kiseok Kwak (Korea)  
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### *Members of TC33:*

1. Eng. Andrea Themeli (Albania)
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5. Roger Skirrow (Canada)
6. Dr Fuping Gao (China)
7. Dr. Jaime Suarez-Diaz (Colombia)
8. A. Bekkouche (Algeria)
9. Dr. Jean-Jacques Fry (France)
10. Prof Dr Ing K.J. Witt (Germany)
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12. Prof. Michael Sakellariou (Greece)
13. Dr. J. Józsa (Hungary)
14. Mr Saeed Heidari (Iran)
15. Dr. Makoto Shimamura (Japan)
16. Dr H Sekiguchi (Japan)
17. Prof. Zh. Bainatov (Kazakhstan)
18. Dr. Kiseok Kwak (Korea)
19. Gijs Hoffmans (Netherlands)
20. Prof. Bruce Melville (New Zealand)
21. Mr Tore Valstad (Norway)
22. Dr B Klosinski (Poland)
23. Laura Caldeira (Portugal)
24. Prof. Sanda Manea (Romania)
25. Prof. Yee Meng Chiew (Singapore)
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### 3 TERMS OF REFERENCE

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.

Exchanges take place on the international research progress.

Global guidelines are developed.

A web site is developed.

### 4 ACTIVITIES

TC33 has been in existence since 1997 when it was created by President Ishihara as the Scour of Foundations Committee. In 2001, it was renewed by President Van Impe as the Geotechnics of Soil Erosion Committee. In 2005, it was renewed by President Seco E. Pinto as the Geotechnics of Soil Erosion Committee. The activities of our committee have included the following:

**2006 Third International Conference on Scour and Erosion** in Amsterdam. Dr. Gijs Hoffmans of Netherlands chaired the conference. Proceedings were published in the form of a CD and a book of abstracts. They are available for purchase from Dr. Hoffmans ([taan.gijs@planet.nl](mailto:taan.gijs@planet.nl)).



Dr. Hoffmans and his colleagues welcome the participants at ICSE-3 with local touch

**Meeting of TC33 in Amsterdam** Minutes of this November 2006 meeting can be found on the web site (<http://ceprofs.civil.tamu.edu/briaud/Scour-tc33>). At this meeting the 2008 ICSE-4 was awarded to Japan (Tokyo) and the 2010 ICSE-5 was awarded to USA (San Francisco). This contributes to all terms of reference.



Committee members at Amsterdam TC-33 meeting

**2008 Fourth International Conference on Scour and Erosion** took place in Tokyo, Japan on November 5-7, 2008. Professor Hideo Sekiguchi was the chair of ICSE-4-Tokyo (<http://icse-4.kz.tsukuba.ac.jp/index-e.html>). The proceedings are available by contacting Professor Sekiguchi at [sekiiguch@ujigawa.mbox.media.kyoto-u.ac.jp](mailto:sekiiguch@ujigawa.mbox.media.kyoto-u.ac.jp).

Professor Sekiguchi (far left) and the participants of ICSE-4



Tokyo

**Meeting of TC33 in Tokyo** The ISSMGE TC33 met in the afternoon of November 4<sup>th</sup> just before the conference. The minutes of this meeting are available on the web site (<http://ceprofs.civil.tamu.edu/briaud/Scour-tc33>).



Members of TC33 at the Tokyo meeting

**2010 Fifth International Conference on Scour and Erosion** will take place on 7 to 10 November 2010 in San Francisco, USA. The web site is <http://www.icse-5.com/>. Mrs. Cathy Avila and Ms. Beatrice Hunt are the Co-Chair of ICSE-5. You can reach Mrs. Avila at [cavila@avilaassociates.com](mailto:cavila@avilaassociates.com) and Ms. Hunt at [Beatrice.Hunt@stvinc.com](mailto:Beatrice.Hunt@stvinc.com). The TC33 meeting will take place on Sunday 7 November 2010 at the site of the conference.

**2012 Sixth International Conference on Scour and Erosion** will take place in late summer 2012 in Paris, France. The chair of this conference is Dr. Jean-Jacques Fry who can be reached at [jean-jacques.fry@edf.fr](mailto:jean-jacques.fry@edf.fr).

**The web site** at <http://ceprofs.civil.tamu.edu/briaud/Scour-tc33>. Professor Briaud is in charge of the web site. Please direct any comments on the web site to him ([briaud@tamu.edu](mailto:briaud@tamu.edu)).

**Short courses:** TC33 in partnership with other committees has organized a number of short courses in  
USA, November 2002 at Texas A&M University, Bridge Scour.

Canada, April 2003 in Toronto, Bridge Scour

Tunisia (in French), February 2004 in Hammamet, Bridge Scour

Portugal, June 2004 in Braga, Bridge Scour

USA, January 2005 in Austin, Surface Erosion

USA, February 2006 in Atlanta, Bridge Scour

USA, February 2007 in Denver, Levee and Dam Erosion

Spain (partially in Spanish), April 2007, Bridge Scour

USA, February 2008 in New Orleans, Soil Erosion

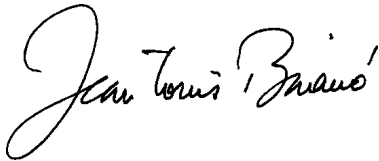
## 5 FUTURE WORK

Our series of ICSE conferences (2002, 2004, 2006, 2008, 2010, 2012) every two years represents a very good incentive for us to meet regularly. They attract the best experts in the field. Typically 25 countries are represented and some 100 presentations are made. The ICSE conference proceedings also document the latest in the scour and erosion world. They provide information for many countries which may not be fortunate enough to be able to attend the conferences. The ICSE conferences are the highlights of our committee activities and we plan to continue to organize these conferences.

**Don't miss the ICSE-5 conference in San Francisco on 7-10 November 2010**

**(<http://www.icse-5.com/>)**

**And the TC33 meeting on 7 November 2010**



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