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Report of TC 30 – Coastal Geotechnical Engineering

Compte rendu sur la CT N° 30 – Géotechnique côtière

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The expansion of cities and the progress of industrialization have been triggering a number of construction projects in the coastal areas, where thick alluvial soft soils are accumulated. As the geotechnical engineering has been playing a major role in the coastal development, TC30, which is focusing on the various engineering problems closely related to the actual construction projects, was established in 1994.

Activities in the first term 1994-1997

Terms of reference of TC30 in the first term 1993-1997 were as follows:

1. To survey the recent geotechnical achievements applied to the coastal engineered constructions, focusing on the priority needs as far as research and development are concerned.
2. To collect and publish some selected case histories focusing on the peculiarities related to the soil investigation, design, construction and monitoring.
3. To participate actively in the International Symposium on Compression and Consolidation of Clayey Soils to be held in Hiroshima in 1995.
4. To promote the organization of GEOCOAST II to be held in 1996 or 1997.

In the 1993-1997, the following activities were carried out:

1. We started to edit the "International Manual for Evaluating the Design Parameters of Coastal Soft Deposits" after the 1st meeting held in IS-Hiroshima 95'. To survey the present state of method, Dr. Tsuchida send the questionnaires on "Procedures for Soil Investigation and Determination of Design Parameters Adapted in Routine Work". The number of the mailed answer are only 2 and it may be difficult for researchers to make answers, because the contents of the questionnaires are related to *routine* work and hearing the procedures at the field and laboratory in detail.
2. TC30 co-sponsored IS-Hiroshima Symposium, titled "*Compression and Consolidation of Clayey Soils*" which was held at Hiroshima, Japan in May, 1995. The members worked actively, as lecturers, session chairpersons, or secretaries. Case histories of high quality were collected in the symposium proceedings.
3. Geocoast 2 was not held in the first term, because:
 - 1) In IS-Hiroshima 95, the papers on similar topics are collected and the discussions are made, the case

studies in the coastal area were presented.

- 2) The two or three international symposiums (IS series) have been held in Japan, in each year between 1995 and 1997. In this situation, the organization of another symposium was difficult.
4. The small size symposium, named *International Symposium on Characterization of Soft Marine Clays*, were held in February in 1997 at Port and Harbour Research Institute. TC members, particularly those from Japan and Canada, have been conducting comparison studies of clay properties and the sampling method in various countries and regions. A number of in-site and laboratory tests of well-known clays, such as Drammen (Norway), Bothkennar Clay (United Kingdom), Quebec Clay (Canada), and Ariake Clay (Japan) were carried out with different methods. The symposium was held for the purpose that the results of this research can be shared with all the other TC 30 members. About 80 researchers took part in the 3day symposium, and the results of the symposium will be published in 1998.

Activities in the Second Term 1997-2001

At the TC meeting in Hamburg Conference, the terms of reference for the second term of TC30 was determined as follows:

1. To collect and publish some selected case histories focusing on the peculiarities related to the soil investigation, design, construction and monitoring.

In the first term, we co-organized the International Symposium IS-Hiroshima in 1995. Case histories in coastal areas, which are related to compression and consolidation problems of soft clays, were collected in the Symposium. In next term, we are expecting to collect important case histories on the recent projects, which are ongoing in the world.

2. To promote the international symposium on "Design Parameters and Case History in Coastal Geotechnical Engineering" in 2000.

In the second term, we are considering to held the International Symposium on "Design Parameters and Case History in Coastal Geotechnical Engineering, Geocoast 2 (tentative title)". The symposium will be held in 2000 between the major conferences, Asian, European,

International Conferences, and the place will be in Japan.

The main topics of Geocoast 2 will be:

- 1) Exploration of soft soil and determination of design parameters
- 2) Prediction and performance of earth structures on soft clay
- 3) Soil improvement for soft clay ground
- 4) Deep and shallow foundations in soft ground

The tentative schedule of Geocoast 2 will be:

Apr. - May	1998	Call for papers
Oct. - Nov.	1998	TC30 meeting
Apr.- May	2000	Geo-Coast 2

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