



*Towards an
improved use
of underground
Space*

*In Consultative Status, Category II with the
United Nations Economic and Social Council
<http://www.ita-aites.org>*

Topic
CATALOG OF TUNNELS

Title
Overview of ITA Tunnelling Project Summary Reports

Author
ITA WG Catalogue of Tunnels, S. Kuwahara

Originally published
**in the Journal "Tunnelling and Underground Space Technology",
Vol. 5, Nr. 3, pp. 191 - 191, Year 1990.**

Copyright © 1990, Elsevier Science Limited, www.elsevier.com; All Rights reserved.

Working Group: **WG 8 - "Catalog of Tunnels"**

Open Session, Seminar, Workshop: -

Others: **Paper**

Abstract: Beginning in 1986, the International Tunnelling Association's Working Group on the Catalogue of Tunnels has produced three volumes summarizing data on tunnel projects throughout the world. The animateur (chairman) of the Working Group describes the tunnel project summaries, their uses to date, and future plans.

Résumé: Après ses débuts en 1986, le Groupe de Travail sur le Catalogue des Tunnels de l'Association Internationale des Travaux en Souterrain (AITES) a produit trois volumes résumant les données recueillies sur des projets de tunnels dans le monde entier. L'animateur du Groupe de Travail décrit les résumés des projets, leur utilisation actuelle et les projets à venir.

Remarks: -

Overview of the ITA Tunnelling Project Summary Reports

ITA Working Group on Catalogue of Tunnels (S. Kuwahara, Animateur)

Abstract—Beginning in 1986, the International Tunnelling Association's Working Group on the Catalogue of Tunnels has produced three volumes summarizing data on tunnel projects throughout the world. The animateur (chairman) of the Working Group describes the tunnel project summaries, their uses to date, and future plans.

Résumé—Après ses débuts en 1986, le Groupe de Travail sur le Catalogue des Tunnels de l'Association Internationale des Travaux en Souterrain (AITES) a produit trois volumes résumant les données recueillies sur des projets de tunnels dans le monde entier. L'animateur du Groupe de Travail décrit les résumés des projets, leur utilisation actuelle et les projets à venir.

Background

At the 12th annual International Tunnelling Association conference, held in Florence, Italy, in 1986, the Working Group "Catalogue of Tunnels" recognized the necessity of collecting and recording tunnel project data in order to grasp worldwide tunnel construction trends. To coordinate the Working Group's activities, the animateur proposed a systematic filing method for collected data by applying computerized data processing. This method enables us to summarize, classify, and analyze all data collected on tunnelling construction, to help fulfill requests of ITA members and other individuals or companies.

As a result, all of the Working Group members agreed to contribute information for a tunnel project data book, called the "Tunnelling Project Summary," as the yearly working group activity. From 1986 to 1989, the group published three editions of the tunnel summary. We intend to continue this activity in order to contribute to tunnel engineering all over the world.

Content of the Tunnel Project Summary

The "Tunnelling Project Summary" includes the following data for each tunnel:

1. Name of tunnel.
2. Kind of tunnel (e.g., railway, subway, sewer, utility).
3. Location of tunnel.
4. Length and sectional area of tunnel.
5. Tunnel shape.
6. Geological features.
7. Construction method.
8. Construction period and cost.
9. Name of client.
10. Name of consultant.
11. Name of contractor.
12. Other pertinent information, if available.

The first edition (1986) of the project summary featured data on approximately 900 tunnels from seven countries—Austria, Egypt, Iceland, Italy, Japan, U.S.A. and West Germany. This Summary included tunnel performance records for the past 10 years, as well as data for tunnels under construction and in the planning stages.

In 1988 the Summary was revised: data for 1411 tunnels, including those in Czechoslovakia and The Netherlands, were collected. In 1989, the third edition was published. This volume contains data on 1019 tunnels, including those from another two countries—Cuba and Norway. In 1990, Canada plans to add data on its tunnels to the Summary. All the data collected

thus far have been coded and stored in the computer data base file.

Animateur's Comments

Four years have passed since the Working Group published the first edition of the Tunnel Project Summary. We are very glad to hear that the Summary has been well utilized by many tunnel engineers. In addition, the Summary has been requested by tunnel machine and equipment manufacturers, consultants and market research companies. These requests were made because the ITA Tunnel Project Summary is the only such tunnel profile summary published that includes tunnel project data from throughout the world. It has been produced solely through the contributions and cooperation of ITA Working Group members.

For the future development of the Tunnelling Project Summary, we expect and hope that more countries, particularly developed countries, will participate in the group's activities. We welcome additional data, which can be sent to the animateur.

Copies of the Tunneling Project Summary may be ordered from the Japan Tunnelling Association, Shin-tomi 2-14-7, Chuo-ku, Tokyo. Fax (81)-3-553-6145.

Present address: S. Kuwahara, General Manager, Overseas Civil Eng., Dept., Ohbayashi Corporation, 3, 2-Chome, Kanda, Tsukasa-Cho, Chiyoda-ku, Tokyo, Japan.