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### Publications

#### Colloquium on Inspection and Quality Control 5 - 7 July 1977, Cambridge, England

Twenty-two participants from 6 countries attended the Colloquium.

Twenty-three papers were circulated to participants before the colloquium so that they could be read and digested, enabling the participants to be ready and prepared for the discussions at Cambridge. Participation was by invitation only.

In view of the different practices in the countries concerned, it was decided that the Part 1 of the Colloquium should be devoted to the different countries represented, giving a general description of their approaches to the problem.

The second part of the programme was concerned with discussions on individual papers and subjects.

The British Group of IABSE has prepared a twelve pages' document reporting on the colloquium and giving the list of participants and papers presented.

The various papers are also available from the British Group headquarters for those who wish to study the materials submitted in detail.

For further information, please contact

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R.J.W. Milne  
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London SW1X 8BH, Great Britain

#### Post-Tensioned Box Girder Bridge Manual

This publication presents design and construction information for post-tensioned concrete box girder bridges cast continuously on falsework with continuous parabolically draped tendons and cast segmentally with discontinuous tendons. Design examples of both simple-span and continuous-span, post-tensioned box girders cast on falsework are presented along with a design example of a transversely post-tensioned top slab for a segmental box girder. In addition to the design examples, information is presented on other aspects of post-tensioning such as anchorage stresses, tendon stressing and grouting procedures. Specifications for both cast-on-falsework and segmental construction are included to be used as guidelines for the writing of project specifications.

146 pages, with numerous pictures, drawings, tables, design aids. 1978.

Price \$ 12 postpaid. \$ 8 for PTI members. For orders outside of the USA, add 20 % to cost.

Order:

Post-Tensioning Institute  
301 West Osborn, Suite 3500  
Phoenix, AZ 85013, USA

#### Inter-Association Symposium IABSE – FIP – CEB – RILEM – IASS

“Behaviour in service of concrete structures”  
Liège, 4, 5, 6 June 1975

The fourth volume “Final Report” has been published in 1978. It contains the general reports, the final contributions and the oral communications.

The fifth volume containing only all the general reports included in the first four volumes and which constitutes the synthesis of the works of the colloquium is also now available.

The volumes can be ordered for 1'000 F.B. each (+ mailing costs) from the

University of Liège  
Service du Professeur R. Baus  
6, Quai Banning  
B – 4000 Liège, Belgium

#### Precast Segmental Box Girder Bridge Manual

In the late 1940's, and in the 1950's, many innovative construction methods were developed in Europe for replacement of war damaged bridges. These construction methods primarily related to the use of prestressed concrete. In particular, the cast-in-place cantilever method of segmental bridge construction developed in Germany opened the way to construction of concrete bridge spans in excess of 200 m.

Beginning in the mid 1960's, technology was developed in France for the use of precast segmental box girder bridges. This technology subsequently spread to countries throughout the world, including, in recent years, Canada and the United States. As a contribution to the continuing evolution of prestressed concrete bridge construction, the Prestressed Concrete Institute and the Post-Tensioning Institute have published jointly this manual on precast segmental box girder bridges, which includes:

- Development of Precast Segmental Bridge Construction
- Considerations for Segment Design
- Analysis of Precast Segmental Box Girder Bridges
- Fabrication Transportation and Erection of Precast Segments
- Design Example for a Three-Span Precast Segmental Bridge
- Appendix

116 pages, with numerous pictures, drawings, tables. 1978.

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