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## 1. Symposium on «Durability of Structures» Lisbon, Portugal, September 4 – 5, 1989

### Organization

The IABSE Symposium 1989 is organized by the National Laboratory for Civil Engineering, Lisbon (LNEC) and the Portuguese Group of IABSE (GPPE).

It is co-sponsored by the Comité Euro-International du Béton (CEB), the European Convention for Constructional Steelwork (ECCS), the Fédération Internationale de la Précontrainte (FIP) and the International Association for Shell and Spatial Structures (IASS).

### Technical Programme

Durability is the ability of a structure to maintain its level of reliability and serviceability during its lifetime.

Durability aspects in planning, design and construction of new structures as well as during maintenance, repair, rehabilitation and alterations of existing structures are the objects of the Symposium. These aspects cover all types of construction materials.

The Symposium programme will comprise for sessions of identical format: plenary sessions, presentation sessions, workshop, poster sessions, a commercial exhibition as well as visits of the National Laboratory of Civil Engineering.

The four half-day sessions will develop as follows:

#### **General Durability Aspects from Preliminary Design to Demolition**

- Keynote Lectures  
Stanley Gordon, Chief Bridge Division, Federal Highway Administration, USA  
Pierre Lemarié, Chief, Bridge Department, SETRA, France
- Session «General Durability Aspects»
- Session «Case Studies»
- Workshop «In-situ Inspection»

#### **Influence of Material Properties on the Durability of Structures**

- Keynote Lectures  
Prof. Dr. H.K. Hilsdorf, Department Construction Materials, University of Karlsruhe, Fed. Rep. of Germany  
Dr. Steen Rostam, Consulting Engineer, Cowiconsult, Denmark
- Session «Corrosion of Steel»
- Session «Other Types of Deteriorations»
- Workshop «Life Span Considerations»

#### **Durability Aspects in Design, Detailing and Construction**

- Keynote Lectures  
Daniel Poineau, Great Bridges Division, SETRA, France  
William F. Geyer, Partner, Steinman Consulting Engineers, USA
- Session «Design for Durability» I
- Session «Design for Durability» II
- Workshop «Durability of Suspended Structures»

#### **Durability Aspects in Maintenance, Repairs, Rehabilitation and Alterations**

- Keynote Lectures  
Katsutoshi Isoura, Operation Division, Central Japan Railway Company, Japan  
Prof. Harold Roper, School of Civil and Mining Engineering, University of Sydney, Australia
- Session «Assessment of Structures»
- Session «Maintenance of Structures»
- Workshop «Joints, Bearings and Drainage»

The **Symposium Report**, containing the keynote lectures, the contributions accepted for the sessions, workshops and poster sessions, will be handed over to the participants at the beginning of the Symposium.



*Lisbon, the old commercial square*

### **Post-Symposium Tours**

#### *Oporto tour, Sept 9:*

Participants will be taken on a visit to the construction site of the new railway bridge over the Douro River, in Oporto. It is a bridge in prestressed concrete with a central span of 250 m.

#### *Algarve tour, Sept 9 and 10:*

The tour will give participants an opportunity to visit the Algarve, including a technical visit to the construction site of a new cable stayed bridge, the Arade Bridge, in Portimão, with a central span of 256 m.

### **Social Programme and Programme for the Accompanying Persons**

As it is usual with our friends and colleagues from the Portuguese Group of IABSE, a social programme has been carefully prepared for participants and accompanying persons, who will have the opportunity to visit some of the most interesting places in Portugal; and also enjoy the traditional hospitality of the Portuguese people.

### **Final Invitation**

The Final Invitation has been mailed in February 1989 to all preregistrants and further interested persons. It contains all necessary information for making your Symposium participation attractive and worthwhile. A reduced fee is granted for registration paid until June 30, 1989.

Additional copies of the Final Invitation and further information can be obtained from:

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ETH-Hönggerberg  
CH-8093 Zürich, Switzerland  
Tel: (Int + 41 1) 377 26 47  
Telex: 822 186 IABS CH  
Telefax: (Int + 41 1) 371 55 48  
with mention: «IABSE-Lisbon 1989»

1989 IABSE Symposium  
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