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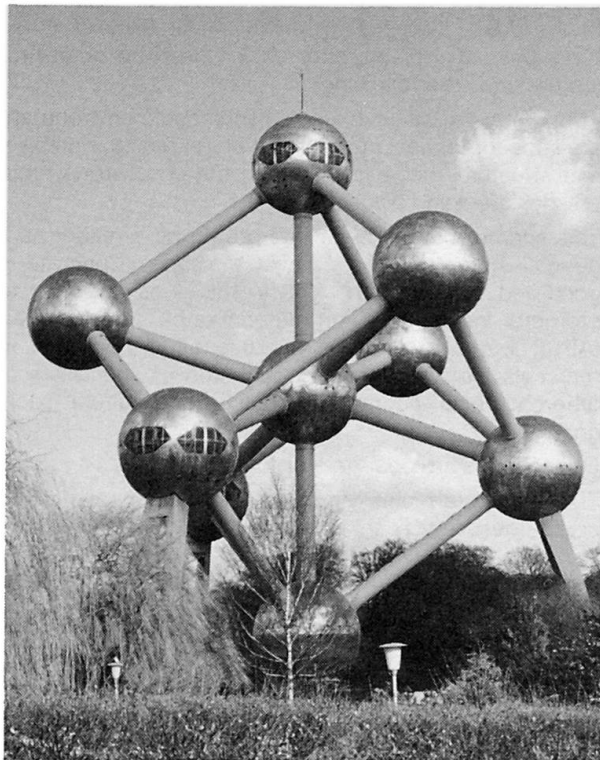
## Symposium on «Mixed Structures, including New Materials» Brussels, Belgium, September 5 – 7, 1990

### Organisation

The IABSE Symposium 1990 is organized by the Belgian Group of IABSE, under the auspices of the Comité Euro-International du Béton (CEB), the European Convention for Constructional Steelwork (ECCS), the Fédération Internationale de la Précontrainte (FIP), the International Association for Shell and Spatial Structures (IASS), and the Réunion Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions (RILEM).

### Technical Programme

The Symposium will treat mixed structures in a very wide sense. Not only structural aspects will be tackled, but also the behaviour of materials in association with other materials in the same structure. The introduction of the concept «life of a structure» compels designers, builders and owners to focus their attention on maintenance of the structure in order to extend its serviceability and to safeguard the investment. This aspect is as important for mixed structures as it is for homogeneous structures. The Symposium will provide an opportunity to describe the state of the art, to inform engineers about new ideas, innovative applications and practical achievements, and to take stock of acquired experience.



*Brussel's atmospheres  
(Documents OPT/Locus, Berthold)*

### Symposium Format

The Symposium will comprise *sessions*, which will consist of:

- a presentation, by one or more General Reporters, of a summary of some of the papers
- a presentation of some papers by their Authors
- a discussion period.

*Poster sessions* will also be organized on all themes of the Symposium:

- Theme 1: Composite steel-concrete elements
- Theme 2: Mixed steel-concrete structural systems
- Theme 3: Mixed Structures involving materials other than steel with concrete
- Theme 4: New materials for use in mixed structures.

A *commercial exhibition* related to the themes of the Symposium will also be organized.

The *Symposium Report* will contain the papers and the contributions for the poster sessions which were accepted for publication by the Scientific Committee.

### Participants

The Symposium is intended for civil and structural engineers and others concerned with mixed structures or with new materials or new developments of existing materials for use in mixed structures.

Participants will be designers, consultants, contractors, suppliers, operators, investors and those involved in education and research.

More than 500 IABSE members and non-members are expected at the Symposium.

## Language

The official languages of the Symposium are English, French and German. Simultaneous translation will be provided in the main hall.

## Social Programme

All participants and accompanying persons are welcome to take part in the social programme on Wednesday, Sept. 5: a Buffet-Dinner will be served at Autoworld, a museum for vintage cars.

## Programme for Accompanying Persons

In addition to the Buffet-Dinner, the programme includes the following tours:

**Full-day Tour to Bruges** including a walk through the historic centre, a boat trip on the city canals and a visit to the Groeninge Museum.

### Full-day excursion

The participants will have the choice of three tours:

#### Tour 1: Antwerp

Visit to the Rubens House, where the famous artist of the Golden Age of Antwerp, lived and worked from 1610 till 1640. Sightseeing tour of the old part of the town and the Cathedral.

#### Tour 2: Leuven (Louvain)

Visit to Louvain, Medieval-city, ancient capital of the Countries of Louvain and the Dukes of Brabant, with its University (1425). Visit to the collegiate Saint-Peter's Church and the Town-Hall, one of the most beautiful examples of the architecture of the Middle Ages. Walk through the Cloth-Halls, the University Library and the great Beguinage (XIIIth Century). Visit to the Norbertine Abbey (XVIIth century) and walk through the Park of the Arenberg castle (XVIth century).

#### Tour 3: Namur

In the morning visit to a feudal castle (XIIth century) at Corroy-le-Chateau and to the Citadel at Namur, the capital of the Walloon part of the country. After a short walk in the Meuse valley, visit to the Abbey of Floreffe (XIIth century).

## Post-Symposium Tour

The visit to the region of the Canal du Centre and the Canal Charleroi-Brussels on Saturday Sept. 7, will illustrate three stages in the evolution of structures (other than locks) enabling boats and ships of considerable capacity negotiate an important waterfall. The civil engineering works attract the interest of professional engineers, of course, but also of many tourists. Accompanying persons will find them as enjoyable as the symposium participants.

A visit will be paid to four remarkable hydraulic shiplifts, built at the end of the 19th century along the romantic old canal du Centre.

The inclined plane at Ronquières was completed in 1968. Canal boats of up to 1350 t are floated into a wheeled caisson which then moves on rails along a 1400 m long inclined plane.



The giant shiplift is now under construction at Strépy on a new section of the canal. It is built of concrete and steel. When completed, it will translate ships of up to 1350 t over a height of 73 m.

## Final Invitation

The Final Invitation was mailed in February 1990 to all preregistrants and further interested persons. It contains all necessary information for making the Symposium participation attractive and worthwhile. A reduced fee is granted for registration paid before June 30, 1990.

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

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