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## 1. International Competition of Architectural Students on «Steel in Buildings» – Jury's Report

### Introduction

On the occasion of the Symposium to be held in Luxembourg in September 1985, an International Competition of Architectural Students was organized by the European Convention for Constructional Steelwork (ECCS) and the International Association for Bridge and Structural Engineering (IABSE). The competition was co-sponsored by the International Iron and Steel Institute (IISI) and placed under the patronage of the International Union of Architects (UIA).

The theme of the competition was

#### **Steel in buildings.**

More than 800 Schools of Architecture, worldwide, were informed of, and invited to encourage architectural students to participate in the competition. A great number of entries were received from 81 Schools and from 31 countries. 35 projects were actually delivered for consideration.

### Subject and Theme

The subject for the competition read as follows:

«Over the past few years, the preoccupations with housing and industrial equipment, as governed by the living standards and cultural interests of each country, have been focused on various themes, such as:

- policy of industrialization and industrial development
- research and advanced technological innovations
- safety and durability concepts
- energy savings
- permanent housing, temporary housing and demographic growth
- emergency housing and major natural disasters.

Does steel used as a structural material, provide adequate solutions to these problems and concerns?

Taking these themes as a basis, the ideas of the candidates should be focused on a **structural concept for STEEL construction**, which may be either a global or partial structural system or a structural component.»

### The International Jury

The International Jury met at the Swiss Federal Institute of Technology in Zurich from 16 to 18 July 1985.

It was composed of

Ch. Klein, Architect, President of the Ordre des Architectes de Luxembourg, Luxembourg,  
Chairman of the Jury

F. Besson, Architect, Member of the Executive Board of ECCS, Paris, representing ECCS

P. Borchgraeve, Commercial Engineer, Director Belgium-Luxembourg-Steel-Information Centre, Brussels, representing IISI

Y. Maeda, Professor Emeritus Osaka University, Professor of Kinki University, Osaka, representing IABSE

The attending members of the Jury regretted the absence of delegates representing the UIA.

A. Golay, Executive Director of IABSE acted as the Jury's Secretary.

The Jury examined all accepted projects according to four criteria:

1. structural concept for STEEL construction
2. architectural quality
3. response to a society's need
4. feasibility

In two preliminary steps, the Jury's members reviewed and commented briefly the projects, giving each a general appreciation – positive or not – according to these criteria. The individual votes were generally unanimous and if necessary, discussion within the Jury led to a clear agreement. After the first round, 18 out of 35 projects remained, and after the second one, 8 projects remained.

The Jury studied in more detail and discussed the eight remaining projects. It decided to attribute rewards as follows:

2 first prizes	(SFr. 2250.— each)
4 second prizes	(SFr. 1500.— each)
2 third prizes	(SFr. 1250.— each)

Having done so, the Jury opened the identification envelopes and removed the element of anonymity.

The Jury checked that the authors of the laureate projects were architectural students not yet fully qualified at the date of project presentation, i.e. 1 June 1985. The final judgement of the Jury read as follows:

#### **First prizes**

«Galeriehaus in Amsterdam» (S 4168)

Thomas Stahl, Herne, Fed. Rep. of Germany

«Projet de salle de spectacle flottante et démontable» (F 8514)

Pierre Yves Voz, Liège, Belgium

#### **Second prizes**

«Habitat d'urgence» (L 2631)

Philippe Dubus, Strasbourg, France

Philippe Landes, Strasbourg, France

«Le jardin d'hiver du Casino de Dax (N 8390)

Frédéric Farnier, Bordeaux, France

Francis Guieysse, Bordeaux, France

«The Rialto Market Venice» (W 1234)

Y.S. Lee, Seria, Brunei

Hubert P.Y. Kueh, Sarawak, East Malaysia

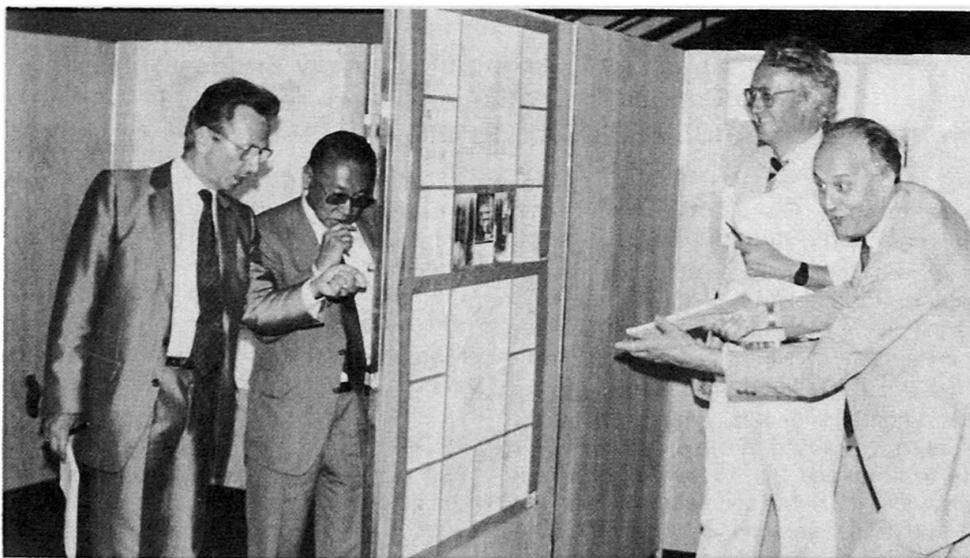
C.K. Wong, Kuala Lumpur, West Malaysia

S.S. Yap, Selangor, West Malaysia

G.S. Koh, Perak, West Malaysia

«Habitat bio-climatique industrialisé ouvert type acier» (V 5547)

Luc Voisin, Tournai, Belgium



*The Jury at work. From left to right: Messrs. Borchgraeve, Maeda, Klein, Besson.*

### Third prizes

«Ehemaliges Backhaus» (X 0811)  
 Gabriele Bartsch, Dortmund, Fed. Rep. of Germany  
 Frank Feislachen, Essen, Fed. Rep. of Germany

«Vélodrome» (P 1985)  
 Jean-Pierre Demeulenaere, Luignne, Belgium  
 Philippe L'Hoir, Ville sur Haine, Belgium  
 Benoit Sailly, Hesdin, Belgium

Short comments on the laureate projects will be presented together with the projects at the ECCS-IABSE Symposium in Luxembourg, 9 to 10 September 1985.

The presentation of laureates and awarding of prizes will be made during the ECCS-IABSE Symposium on «Steel in Buildings» in Luxembourg, Conference Centre, on Monday 9 September 1985, 17.30 h.

### Comments from the Jury

The Jury noted that the level of the projects presented was good, although no outstanding project emerged at first look. The number of projects submitted was much smaller than the number of entries, and this was slightly disappointing. The graphic presentation of the projects was generally rather poor. The themes considered in the competition could be put together in four categories:

- housing and energy saving housing
- building renovation and urban renovation
- emergency housing
- cultural and sport centres

It appeared that some Schools of Architecture had had a school project and that some of these had been submitted for the competition. The Jury also recognized some projects which had already been submitted, with or without success, to other earlier competitions. These were however acceptable according to the competition's rules.

The 35 projects came from 9 countries and 12 Schools of Architecture:

### country:

Belgium (10 projects), France (8), Fed. Rep. of Germany (6), United Kingdom (4), China (2), Japan (2), Bulgaria (1), Luxembourg (1), Malaysia (1).

### School of Architecture:

- |                       |   |
|-----------------------|---|
| Belgium:              | – Institut Supérieur d'Architecture Saint-Luc de Tournai          |
|                       | – Université de Liège   |
| France:               | – Ecole d'Architecture et d'Urbanisme Sept, Paris                 |
|                       | – Ecole Nationale Supérieure des Arts et Industries de Strasbourg |
|                       | – Unité Pédagogique d'Architecture de Bordeaux                    |
| Fed. Rep. of Germany: | – Rheinisch-Westfälische Technische Hochschule Aachen             |
|                       | – Universität Dortmund  |
| United Kingdom:       | – The Scott Sutherland School of Architecture, Aberdeen, Scotland |
|                       | – Architecture Association School of Architecture, London         |
| China:                | – Wuhan Building Material Industrial Institute, Wuhan             |
| Japan:                | – Musashino Art University, Tokyo                                 |
| Bulgaria:             | – High Institute for Civil Engineering and Architecture, Sofia    |

### Conclusions

The Jury felt that this competition organized for the first time by the European Convention for Constructional Steelwork (ECCS) and the International Association for Bridge and Structural Engineering (IABSE), with the co-sponsorship of the International Iron and Steel Institute (IISI), was a very valuable attempt and could be repeated in the future with some improvements in the rules as based on this experience.

The Jury expressed its thanks to all participants and congratulated all laureates.