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## 5. The contribution of IABSE

The International Association for Bridge and Structural Engineering consists of thousands of members of recognized capability and world-wide experience in certain technological fields closely related to implementation of technical co-operation for purposes of economic and cultural development through utilization of technology.

IABSE has a sincere desire to co-operate with nationals and with governments of developing countries. It is believed that mutually beneficial results will accrue to all parties if the government of a developing country and IABSE explore jointly ways and means through which IABSE can:

- a) counsel with governmental agencies and also groups of technologists in a developing country to assist in forming a national group of IABSE within the developing country;
- b) assist in determining how individual and institutional members of such a national group can obtain the benefits of publications, congresses, symposia and seminars sponsored by IABSE, both within the developing country and abroad;
- c) encourage those individual members to participate in the work of the working commissions, task groups and administration of IABSE;

- d) provide opportunities for exchanges of experience between those individual national group members and their counterparts in other nations; and
- e) generally help to increase national knowledge, experience and capabilities for purposes of effectively implementing technical co-operation to the end that the forces and materials of Nature can be utilized for the benefit of the people at price the people can afford to pay.

Parties having an interest in such a co-operative effort should address questions, comments and suggestions to:

The Secretariat  
IABSE/AIPC/IVBH  
ETH-Honggerberg  
CH - 8093 Zurich, Switzerland

It is hoped that this brief discussion of a major international problem, from the perspective of a particular discipline, will encourage meaningful consideration of related important aspects. Each technical association as well as each government has an obligation to think and to work hard for co-operative progress in improving qualities of living for all. The creation of strong programs to recruit and support technologists and administrators of distinction is an essential element in that progress. What has been done heretofore is, in certain cases, substantial. What can be done is unbelievable.

## 2. Planning and environmental criteria for tall buildings

Volume PC Published

This final volume of the five-volume series on planning and design of tall buildings will be published in October 1981. IABSE members will be interested in having in their library this volume that ranges over the full spectrum of engineering, architecture, planning, and social sciences.

Some of the factors of particular interest in the fifteen chapters are the following:

**Philosophy of tall buildings:** Consideration of esthetics, sociological and religious factors, and alternatives to high-rise buildings. Decision making parameters that are suitable for computerization.

**History of tall buildings:** Problems that faced the ancients are still with us in the provision of urban space for life and work. Development of tall masonry buildings. Early tall buildings framed in iron, steel, and reinforced concrete.

**Social effects of the environment:** Human satisfaction with the high-rise. Role of environmental stimuli and the social and cultural differences.

**Socio-political influences:** Policy-making as between the public and private sector.

**Economics:** The entwining of political and economic considerations.

**Architecture:** The broad scope of architectural factors and their role in producing successful tall building designs.

**Interference and environmental effects:** The interconnection of internal and external environmental factors in coordination with architectural aspects.

**Urban planning and design:** Consideration of the tall building as part of the urban system. Land use and zoning.

**External transportation:** Integration of the high-rise with transportation systems.

**Parking:** Entrance and exit requirements, zoning, flow patterns, and consideration of site conditions.

**Operation maintenance and ownership:** Tenancy and ownership factors that are unique to residential and commercial buildings.

**Energy conservation:** Economies to be achieved through recycling of energy that otherwise is wasted. Reduction of excessive levels of cooling or heating.

**Motion perception and power:** Psychological and physiological reactions to motion. Design criteria for structural systems and damping devices.

**Project management:** Consideration of complete life cycle of building. Reduction of overall time and cost of construction leading to early occupancy.

**Systems methodology:** Application to building analysis, design, and performance.

The monograph is a publication of the Council on Tall Buildings and Urban Habitat and is available from the American Society of Civil Engineers, 345 East 47th Street, New York. The following is a schedule of prices:

PC: \$75.00, SC: \$50.00, CL: \$50.00, SB: \$75.00, CB: \$62.50.

The price of the entire set is \$250.00.