

Activities Report: Fiscal Year 1972 (1973)



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U.S. NATIONAL COMMITTEE
FOR THE
INTERNATIONAL COUNCIL FOR BUILDING RESEARCH,
STUDIES AND DOCUMENTATION (USNCCIB)

ACTIVITIES REPORT
FISCAL YEAR 1972

Prepared by the
U.S. NATIONAL COMMITTEE CIB
Division of Engineering
National Research Council
National Academy of Sciences-National Academy of Engineering

NATIONAL ACADEMY OF SCIENCES
Washington, D.C.
1972

The U.S. National Committee CIB gratefully acknowledges financial support received during the past year from the Department of Housing and Urban Development, the National Science Foundation, the Department of the Army Construction Engineering Research Laboratory, the National Bureau of Standards, and the U.S. Department of Agriculture Forest Products Laboratory.

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I. USNCCIB: SUMMARY DESCRIPTION AND ACTIVITIES

ORIGIN, OBJECTIVES, AND ORGANIZATION

In 1962, under the aegis of the National Academy of Sciences, the United States National Committee for the International Council for Building Research, Studies and Documentation (USNCCIB) was organized to represent the United States in the International Council for Building Research, Studies and Documentation (CIB). The USNCCIB is a full member of and currently pays 15,000 Sw. Frs. in annual dues to CIB.

The primary objectives of the USNCCIB are (1) to function as a liaison between U.S. interests and the CIB and, thus, provide a mechanism through which the ready exchange of building research data generated by U.S. private and public organizations and other CIB members is encouraged, (2) to stimulate, through the establishment of counterpart commissions, the generation of research studies and information on the state-of-the-art in the field of building research and technology, and (3) to motivate organizations to take positive action in furthering building research, studies and documentation.

As part of the National Research Council of the National Academy of Sciences-National Academy of Engineering, USNCCIB is in a unique position to provide liaison services at the international level in matters concerning the exchange of research data of interest to the various segments of the building community in the United States.

Interrelationship with the Building Research Advisory Board (BRAB) and the BRAB Building Research Institute (BRI) strengthens the capability of USNCCIB to correlate the activities of both national and international building and construction groups.

USNCCIB membership is composed of both Participating Organizations--private non-profit national organizations and federal agencies conducting, sponsoring, administering, or utilizing building related research studies and documentation--and Members-at-Large--individuals appointed in recognition of their competence in building research and related activities without regard to their organizational affiliations. The Executive Committee coordinates USNCCIB activities and is composed of the USNCCIB Chairman, Vice-Chairman, and Representative to CIB and from four to six others elected from the membership.

Contracts or grants from various organizations provide the financial support for USNCCIB. In 1971-72, funds were received from the National Science Foundation (\$30,000), the Department of Housing and Urban Development (\$15,000), the Department of the Army Construction Engineering Research Laboratory (\$5,000), and, jointly the National Bureau of Standards and the U.S. Department of Agriculture Forest Products Laboratory (\$5,000).

1971-72 ACTIVITIES

During the 1971-72 fiscal year, the full USNCCIB met on November 4, 1971, and February 9, 1972. The Executive Committee met formally on November 3, 1971, and February 8, 1972. The officers and staff met on several other occasions.

USNCCIB became more involved in a functional way with CIB during the past year. Contributing greatly to this increased participation were the activities of the USNCCIB Representative to CIB. As a member of the CIB Board of Directors and the CIB Program Committee, he has served in a unique way to provide thorough communication between USNCCIB and CIB. In 1971-72, he reports, CIB voiced enthusiasm for the more active role of USNCCIB and asked for additional U.S. representation on various CIB Working Commissions and Steering Groups. (For a more detailed report of the Representative's activities refer to page 5.)

In order to provide a consensus view of U.S. building and construction activities to serve as the basis for continuous active participation in CIB, the USNCCIB proceeded with plans for furthering its efforts in areas including the performance concept in building, new community development, and low-cost housing.

In connection with the economics of constructing and maintaining a large community complex, a task group is at work developing a program for identifying significant cost elements and making them visible as part of the total costs to be faced by a community in satisfying its working, recreational, social, and shelter needs.

Another task group on organization and management of construction is currently examining incentives and selection, contractual linkages, techniques and tools, and research. This group is proceeding with the formation of a USNCCIB Counterpart Committee to the CIB Working Commission, (T) W-65, Organization and Management of Construction, which was recently formed by CIB on the recommendation of USNCCIB and which, for the first time in USNCCIB history, will be guided by a coordinator in the United States.

An extensive effort was made this year to develop better methods for information exchange. Continuing work after, and incorporating the results of, the April 1971 Workshop on Information Exchange in the Field of Building and Construction, the ad hoc Task Group on Information Exchange generated plans for a program for which funding is currently being sought.

This proposed program, called the Building Research Information Correlation Service (BRICS), is aimed at evolving a system for the exchange of research and technical information within the entire building and construction community (1) by establishing and enhancing linkages among existing organizations in an informal network, (2) by improving the ability of individual service institutions to fill the needs of their respective audiences, and (3) by filling the information/communication gaps that are found to exist.

The BRICS network is envisioned as operating as a loose federation of public and private agencies and institutions that perform services in or related to the generation, collection, compilation, and dissemination of building research and technical information or in its application to the building and construction community. It is planned that full advantage will be taken of the specialized skills available in the existing organizations and that BRICS, under the direction of a Steering Committee, will provide the linkages and facilitate the implementation of cooperative efforts.

The proposed BRICS program has as its basic goals: (1) the establishment of long-range goals commensurate with the magnitude and character of the need for a network and acceptable to the building and construction community; (2) the identification of existing major sources of building research and technology information and the assessment of their capabilities; (3) the development and implementation of an acceptable plan of action, based on common policy and practices, for coordinating information exchange within and external to the network; and (4) the correlation of the domestic system with those of other nations and international organizations.

Organizations representative of potential participants in the program were invited to a meeting on June 20, 1972, to discuss the BRICS concept. Those attending responded favorably and indicated willingness to participate in the proposed program.

Another aspect of USNCCIB's attempts to stimulate communication focused on planning for the creation of a newsletter. Although still in the planning stage, the newsletter will provide interested parties in the building research field with information about the current trends in ongoing research, both here and abroad, and about current USNCCIB and CIB activities as well as about symposia and conferences related to USNCCIB interests. Information regarding ongoing research programs, even though limited to a description sufficient only to enable individuals to assess their interest and to identify the researcher, will be featured. Thus, it is hoped that the newsletter will simplify direct contact between interested parties.

The Task Group on Potential New Roles for USNCCIB and CIB did considerable work during 1971-72 and recently recommended that the proposed program be expanded to further delineate the scope of research in specific areas it has identified as requiring priority attention under the general topic of "Socio-Economic Feedback in the Building Process." The group is currently seeking to determine to what extent research activity is being carried out and what information is available in three specific areas relating to the livability of buildings; these are livability of high-rise residential buildings, service systems of high-rise residential buildings, and physical and economic considerations regarding the life cycles of high-rise residential buildings.

USNCCIB was commissioned by CIB to serve in a special liaison capacity this year by working on its behalf with the Symposium and Steering Committees of the Symposium on the Performance Concept in Building held on May 2-5, 1972, in Philadelphia. In addition, the supporting funds provided to USNCCIB by the National Science Foundation included a substantial grant in support of the program which was jointly sponsored by the American Society for Testing and Materials (ASTM), the International Union of Testing and Research Laboratories for Material and Structures (RILEM), and CIB. Another USNCCIB participating organization, the National Bureau of Standards, is publishing the proceedings of the symposium in order to make them more readily accessible to the international building community. (For a further description of the symposium, refer to page 8.)

APPROXIMATE EXPENDITURES FOR FY 72

Expenditures in support of USNCCIB work during the fiscal year (including estimated costs for the month of June) were made approximately as follows:

1. Personal Services		
Professional	9,082	
Editorial	691	
Secretarial	<u>7,935</u>	17,708
2. Fringe Benefits		2,069
3. Travel		
Domestic	954	
Foreign	<u>1,470</u>	2,424
4. Communication/ Shipping		375
5. Materials/Services		1,498
6. Dues to CIB		3,922
7. Grant for Joint ASTM-RILEM-CIB Symposium		9,525
8. Indirect Costs		<u>8,983</u>
TOTAL		46,504

II. REPORT OF THE USNCCIB REPRESENTATIVE TO CIB FOR FY 1972

During the past year, the USNCCIB Representative to CIB has participated actively in a variety of national and international activities including the following:

MEETING OF WORKING COMMISSION W-60 ON THE PERFORMANCE CONCEPT IN BUILDING, Building Research Station, United Kingdom, September 23-24, 1971

This second meeting of the commission was attended by 24 persons from 10 countries. Among the papers presented was one by James L. Haecker, Chief of the Scientific and Professional Liaison Section, Building Research Division of the National Bureau of Standards, entitled "Performance Definitions in Common Usage in the U.S.A." Other papers on definitions for performance terminology and on lists of parameters to be used when evaluating the performance of various building elements and of whole buildings were also presented.

The commission now plans to continue work, through a subcommittee, on terminology and methods of comparing terms. Work will also proceed on the development of lists of parameters for evaluating performance of various building elements. It was also decided that additional work should be done on listing parameters (the USNCCIB representatives accepted responsibility for developing such a list for roofing) and on compiling bibliographies on performance for subsequent presentation.

MEETING OF THE CIB BOARD OF DIRECTORS, Rotterdam, the Netherlands, September 27, 1971

The USNCCIB Representative and member of the CIB Board presented the ideas of the USNCCIB Task Group on Potential New Roles for the USNCCIB and CIB. Consensus support for the position was expressed and a detailed review of actions regarding areas of conflict with RILEM, the international association for materials testing and research laboratories, was made. Decisions made during the Program Committee meeting which followed indicated that the thrust of the overall CIB program is being turned away from a materials, or materials testing, approach to focus instead on more broadly based concepts.

MEETING OF THE CIB PROGRAM COMMITTEE, Rotterdam, the Netherlands, September 28-29, 1971

At this meeting, the actions of each CIB Working Commission and Steering Group were reviewed. Consideration was given to additional U.S. representation on the following: Climatology and Building (S-4), Heating and Ventilation (W-17), Information Flow (S-47), Joints in Exterior Walls (W-61), Water Supply and Drainage in Buildings (W-62), and Industrial Buildings ([T]S-66).

The Program Committee also indicated its desire for a documented proposal from USNCCIB giving frames of reference, especially on the particular portion of the New Towns spectrum to which CIB should appropriately direct itself.

MEETING OF STEERING GROUP S-47 ON INFORMATION FLOW IN THE BUILDING PROCESS, Rotterdam, the Netherlands, September 30, 1971

James L. Haecker of the National Bureau of Standards was accepted as the USNCCIB participant for this steering group. It was also agreed that the U.S. should nominate a separate additional participant for the full S-47 Commission. It was also decided that two working groups should be established, one to conduct an evaluation of information systems in order to develop tools to help in the selection of information on building processes, and a second to deal with the software of information systems.

Also discussed at this meeting were plans for two workshops to be held during the next twelve months. The first, on "Collection of Site Data," is tentatively scheduled to be held in Sweden while the other, on "Information Storing," is planned for North America. Mr. Haecker, the USNCCIB member, was asked to explore the possibilities for joint U.S.-Canadian participation. He has completed this assignment by holding a joint U.S.-Canadian Round Table and providing a detailed and comprehensive report to CIB S-47.

Steering group members were also asked to suggest directions for the group with regard to information in the building process; special consideration is to be given to how the group should continue to function in the future in view of the changing nature of information systems in the building process.

SYMPOSIUM ON TALL BUILDINGS (CIB S-41), Moscow, U.S.S.R., October 12-15, 1971

As the only CIB Board Member present, the USNCCIB Representative welcomed the group in the name of CIB. Eleven countries were represented by 53 participants and 47 original papers were presented.

During the symposium, a drafting subcommittee of the CIB S-41 Steering Group drew up recommendations for further activity which is to focus on the mutual exchange of information on tall buildings, the publication of symposium papers, and the coordination of CIB activities with other organizations working in tall buildings research.

The tentative subject for the next symposium, to be held in 1972, is "Integrated Economic and Social Evaluation of the Design, Construction, and Use of Tall Buildings."

MEETING OF THE CIB PROGRAM COMMITTEE, Oslo,
Norway, March 14-16, 1972

Following a review of the current activities of each CIB Working Commission and Steering Group, the Program Committee received the report of the Liaison Committee whose members represent various international bodies dedicated to building research, testing, information correlation, and documentation. This committee compiled and asked that CIB distribute to all members "Guidelines for Cooperation." Within a framework of voluntary discipline, these guidelines emphasize ways of coordinating activities of member organizations to avoid overlapping of efforts and to provide for the most efficient use of each organization's resources.

The Program Committee decided against establishing any formal interlocking relationships with the International Standards Organization (ISO) but plans to take advantage of the dual membership of many CIB members on ISO committees to assure that the respective roles of the two organizations are kept distinct and free from undesired duplication. The report of the RILEM Coordinating Group's work was also examined and it appears that all practical efforts are being pursued to avoid conflict. It was noted that the present system of dual membership of some persons in both groups will increasingly provide for the desired demarcation of effort between these two organizations.

The Committee reviewed international cooperative research activities in the areas of noise, wind, flexibility, and the behavior of plastics in fire. Also discussed was the possibility of holding regional workshops prior to full scale CIB symposia. Approval was given to a formal letter urging each regional area to plan such gatherings.

The Program Committee decided that organizing an intermediate general meeting at this time is unnecessary due to the high level of activity in commissions and steering groups and the increased level of symposia reporting. Plans for the Sixth CIB Congress, scheduled to be held in Budapest, Hungary, on October 3-10, 1974, were discussed; the tentative theme is "Building Research: Its Contribution to the Built Environment."

JOINT RILEM-ASTM-CIB SYMPOSIUM ON THE PERFORMANCE
CONCEPT IN BUILDING, Philadelphia, Pennsylvania,
May 3-5, 1972

Following preliminary activities including a key-note address delivered by the Honorable Harold B. Finger, Department of Housing and Urban Development, Assistant Secretary for Research and Technology, working sessions focusing on various phases of the performance concept were held. The scope of topics was extensive and included many facets of performance that only rarely had been examined prior to this symposium.

Subjects ranged from traditional considerations of physical requirements and methods for evaluating mechanical, acoustical, and thermal properties, dimensional stability, compatibility, fire resistance, and geometry to more sophisticated reviews of physiological, anthropometrical, psychological, sociological, and economic requirements. Also considered were operational and maintenance requirements and methods for feeding back field experience into the ongoing processes of building design, specification, and operation.

A total of 84 papers, submitted by authors representing 17 countries, constitutes Volume 1 of the symposium proceedings which was prepublished and sent to all registrants. At the symposium itself, the papers were summarized by rapporteurs and discussions were held in sessions on "The Building Itself," "Experiences and Examples," "Components (or sub-assemblies)," and "Materials." The record of these sessions as well as of the preliminary activities will be published as Volume 2 of the proceedings.

III. CIB: SUMMARY DESCRIPTION AND ACTIVITIES

ORIGIN, OBJECTIVES, AND ORGANIZATION

The International Council for Building Research, Studies and Documentation (CIB) was established in 1953 in response to recommendations made by the United Nations Economic Commission for Europe. CIB's major objective is to encourage and stimulate international cooperation in the gathering, refinement, and dissemination of building research information. These mutual exchanges facilitate the development and adoption of building standardization practices which provide for the effective exchange of building research data and interchangeability of products on the international level.

Forty-five countries are currently members of CIB and send delegates from building-oriented organizations to participate in various CIB activities.* Each full member country appoints a representative to the CIB General Assembly which meets at least once every three years and in which the authority of CIB is vested.

The General Assembly elects representatives from full member institutions to serve three-year terms on the CIB Board,** which meets yearly and is charged with the management of current CIB affairs.

Composed of the President of CIB, the Vice-President of CIB, the Honorary Treasurer of CIB as well as the other elected members, the Board formulates the policy and program of CIB, subject to control by the General Assembly to which it is responsible. The Board also appoints and delegates certain administrative and executive responsibilities to the Administrative and Program Committees.

A Secretary General, engaged by the Board to function as its executive agent, directs the General Secretariat, a small permanent office located at Weena 700, Rotterdam, the Netherlands. The Secretary General and his staff serve to implement CIB policy and also to provide the CIB General Assembly, Board, and Committees with assistance and advisory services.

CIB obtains its total support from the dues of its participating members.

*The U.S. National Committee for CIB is the sole representative of U.S. interests.

**The USNCCIB Representative to CIB is currently an elected member of the Board and its Program Committee.

ACTIVITIES

The continuing operational activities of CIB are carried out through working commissions, each dedicated to a specific facet of building research. These groups are charged with the collection, interpretation, and documentation of data which become the bases for reports and recommendations for international standards and practices or for continuing study.

Steering groups are formed periodically to organize symposia on pertinent topics. In addition, special committees are established occasionally to accomplish specific tasks in areas of interest to CIB.

Every three years CIB sponsors an International Congress which focuses on subjects of current interest and importance. General Assemblies are held in conjunction with each triennial congress and intermediately, as considered necessary.

BUILD International, a magazine published by the Build Foundation under the aegis of CIB, reviews the activities and some of the reports of the various CIB working commissions and presents other less formal data as well. Since January 1971, this periodical has been produced and distributed semi-monthly by Elsevier Publishing Company, 22 Ripplside Commercial Estate, Barking, Essex, United Kingdom; full editorial responsibility, however, remains within the General Secretariat in Rotterdam.

The more formal commission and steering group reports and papers are circulated by CIB to its members. By relying on this standard format system for regular data exchange among its members, CIB is able to serve as an international information and documentation center.

IV. MEMBERS OF THE BOARD OF CIB, July 1971 - June 1974

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SECRETARY GENERAL OF CIB

Mr. W. J. Bierens de Haan

The Netherlands

V. CIB WORKING COMMISSIONS AND STEERING GROUPS (May 1972)

COMMISSION NUMBER, NAME; COORDINATOR, ADDRESS:

W-1 (joint with FID), International Building Classification Committee (IBCC);
Mr. D. E. Dean,
Royal Institute of British Architects,
66, Portland Place, London W.1, United Kingdom

S-4, Climatology and Building;
Dr. E. Liepolt,
Forschungsgesellschaft fur Wohnen, Bauen und Planen, P.O. Box 164, A-1031 Vienna 111, Austria

W-4A, Collection and Presentation of Climatological Data Required by the Designer and Builder;
Mr. R. E. Lacy,
British Research Establishment,
Garston, Watford WD2 7JR, United Kingdom

W-4C, Measurement of Modifications of the Local Climate by Buildings;
Mr. B. Goren-Hellers,
Building Research Institute,
For Byggnadsstatik, 100-44 Stockholm 70, Sweden

CONCISE PROGRAM OF WORK:

Development and use of building classification systems, filing techniques, and indexes and related manuals.

Organization of symposia on the climatological aspects of building activities.

Activities being reexamined; program to be announced shortly.

Activities being reexamined; program to be announced shortly.

W-5 (with CEB, FIP, RILEM), Statistical Control of Concrete Quality;
 Prof. H. Rusch,
 Technische Hochschule,
 21, Arcisstrasse, 8000 Munich 2, Germany (F.R.G.)

W-14, Fire;
 Mr. J. F. Fry,
 Fire Research Station,
 Boreham Wood, Herts., United Kingdom

W-17, Heating and Ventilation;
 Mr. J. Uyttenbroeck,
 Centre Scientifique et Technique de la Construction, 5 rue de la Violette,
 Brussels 1, Belgium,
 and
 Mr. L. J. Stewart,
 Heating and Ventilation Research Association,
 Old Brocknell Land, Brocknell,
 Berkshire RG12 4AH, United Kingdom

W-18, Aspects of Timber Structures;
 Acting Coordinator--Mr. J. B. Dick,
 Building Research Establishment,
 Garston, Watford WD2 7JR, United Kingdom

W-19, Large Concrete Elements;
 Mr. B. Plessein,
 Gosstroj U.S.S.R.,
 24, Puskinskaja, Moscow K-9, U.S.S.R.

W-23, Basic Structural Engineering Requirements;
 Prof. A. F. Smirnov,
 Gosstroj U.S.S.R.,
 12 Prospekt Marksa, Moscow K-9, U.S.S.R.

Development and analysis of laboratory and on-site testing methods for concrete.

Research on the fire endurance of materials and the spread of smoke, fire, and toxic gases in buildings.

Examination of various areas including: balancing, etc.; heating load calculation; prefabrication of installations; pressure losses in pipes; and trends in heating and ventilating.

Research to improve structural uses of timber, to examine jointing, testing, and stress grading, and to compare and unify national timber design codes.

Research in and development of recommendations for improving technical applications of large prefabricated concrete elements.

Development of recommendations for standardizing structural calculation methods.

W-23A, Safety of Load-Bearing Walls;
Prof. B. Lewicki,
Institute for Building Technics,
2, Wawelska, Warsaw 22, Poland

W-24, Dimensional and Modular Coordination
(International Modular Group), IMG;
Mr. L. Bergvall,
Housing Research Company,
7, Norrlandsgatan, S-11143 Stockholm C., Sweden

S-25, Indoor Climate in Tropical and Subtropical
Areas;
Dr. B. Givoni,
Building Research Station Technion,
P.O. Box 4910, Haifa, Israel

W-29, Concrete Surface Finishings;
Mr. M. Adam,
Syndicat National du Béton Armé et des
Techniques Industrialisées,
9 rue la Perouse, 75 Paris 16, France

W-31, Master List of Properties;
Mr. I. Karlén,
Swedish Building Centre,
P.O. Box 1403, S-11184 Stockholm, Sweden

W-40, Heat and Moisture Transfer in Materials
and Structures;
Mr. B. H. Vos,
TNO, Institute for Building Materials and
Building Constructions,
P.O. Box 49, Delft, the Netherlands

Development of scientific bases for building codes,
especially regarding calculations and testing of
stresses in load-bearing walls.

Establishment of rules for dimensional coordina-
tion of construction components and products and
recommendations for their use.

Organization of symposia on problems relating to
construction activities in hot climates.

Study of chemical and physical methods for improv-
ing cast concrete surfaces and of the influence
of temperature, specific weight, spacers, and
exposure.

Development of a master list of building materials'
properties to aid in planning and quality control.

Study of hygro-thermics, the basic phenomena of
moisture and heat transfer in materials and
structures.

S-41, Tall Buildings;
Prof. B. Rubanenko,
Central Research and Design Institute for
Dwellings,
9, Dmitrovskoe sosse, Moscow 1-434, U.S.S.R.

W-45, Human Requirements and Building Design;
Mr. G. Blachère,
Centre Scientifique et Technique du Batiment,
4, avenue du Recteur Poincare, 75 Paris 16, France

S-47, Information Flow in the Building Process;
Mr. K. L. de Vries,
Bouwcentrum,
P.O. Box 299, Rotterdam, the Netherlands

W-49. Tolerances;
Mr. G. Blachère,
Centre Scientifique et Technique du Batiment,
4, avenue du Recteur Poincare, 75 Paris 16, France

W-51, Acoustics;
Mr. R. Josse,
Centre Scientifique et Technique du Batiment,
4, avenue du Recteur Poincare, 75 Paris 16, France

W-52, Exchange and Dissemination of
Information for Practitioners;
Mr. I. Karlén,
Swedish Building Centre,
P.O. Box 1403, S-11184 Stockholm, Sweden

W-53, Long-term Forecasting Methods;
Prof. Dr. G. Sebestyén,
Hungarian Institute for Building Science, ETI,
6, David Ferenc u., Budapest XI, Hungary

Organization of symposia on architecture,
construction, engineering, and user's needs
in relation to buildings over 20 stories.

Development of a list of human requirements to
aid in drafting unified building codes.

Organization of symposia on the application of
theories of information, classification, and
coding as guides in the building process.

Study of basic concepts, measurements, and
specifications regarding building tolerances.

Examination of the physical aspects of acoustics
including the sources and spreading of noises and
methods for measuring and evaluating insulation.

Analysis of users' needs and procedures for
unifying literature abstracts and applying
keywords and thesauri internationally for
electronic data processing.

Study of long-term national planning methods and
their impact on the planning of building
research and on the construction industry.

W-54, Selection and Management of
Research Projects;
Mr. J. B. Dick,
Building Research Establishment,
Garston, Watford WD2 7JR, United Kingdom

W-55, Building Economics;
Mr. W. Kasalicky,
Research Institute for Building and Architecture,
3, Letenska, Prague 1, Czechoslovakia

S-56, Lightweight Low-Rise Constructions;
Prof. Dr. G. Sebestyén,
Hungarian Institute for Building Science, ETI,
6, David Ferenc u., Budapest XI, Hungary

W-58, Sfb Development Group/Sfb Bureau;
Mr. I. Karlén,
Swedish Building Centre,
P.O. Box 1403, S-11184 Stockholm, Sweden

W-59, Building Research Managers;
Secretary General of CIB,
P.O. Box 299, Rotterdam, the Netherlands

W-60, Performance Concept in Building;
Mr. Ø. Birkeland,
Norwegian Building Research Institute,
P.O. Box 322, Blindern, Oslo 3, Norway

W-61, Joints in Exterior Walls;
Prof. G. Karrholm,
Chalmers Tekniska Hogskola Institute for
Technics, Acoustics and Construction,
Fack, S-402, 20 Gothenburg 5, Sweden

Analysis of factors involved in selecting and
accomplishing research projects.

Study of the general aspects of building
economics including an examination of building
procedure from the potential user's point of
view.

Organization of symposia on various aspects of
lightweight buildings including trends,
solutions to problems, fire, and economics.

The Group incorporates Sfb licensees and studies
further development of the system; the Bureau
administers licensee-agreements for CIB which
holds the copyright.

Organization of informal, by-invitation-only,
information exchanges between research directors.

Development of a conceptual framework for a
performance approach to building as well as
a terminology and a commentary on the existing
situation.

Study of joint performance in exterior walls
including the development of joint design and
test methods.

W-62, Water Supply and Drainage in Buildings;
Mr. A. F. E. Wise,
Building Research Establishment,
Bucknall's Lane, Garston, Watford WD2 7JR,
United Kingdom

W-63, Low-Cost Housing;
Prof. Dinesh Mohan,
Central Building Research Institute,
Roorkee (U.P.), India

(T)S-64, Municipal Engineering;
Prof. Dr. G. Sebestyén,
Hungarian Institute for Building Science, ETI,
6, David Ferenc u., Budapest XI, Hungary

(T)W-65, Organization and Management of
Construction;
Dr. L. R. Shaffer,
Department of the Army, Construction
Engineering Research Laboratory,
P.O. Box 4005, Champaign, Illinois 61820

(T)S-66, Industrial Buildings;
Prof. A. Smirnov
Gosstroj U.S.S.R.,
12, Prospekt Marksa, Moscow K-9, U.S.S.R.

Research to develop standards for water supply
and drainage facilities in buildings.

Organization of symposia on the type of low-cost
housing needed by developing nations as well as
the formulation of performance standards and
building regulations.

Study of aspects of municipal engineering in
relation to human settlements including an
examination of technological and economic
problems as well as the roles of hygiene,
aesthetics, and sociology.

Study of current organization and management
practices of public and private groups and an
evaluation of these in terms of providing
optimum environments for man's needs within
available resources; identification of alterna-
tives and research areas.

Program under development, to be available shortly.

VI. SYMPOSIA

1971-72

Symposium on Tall Buildings (CIB S-41)
Moscow, U.S.S.R.; October 12-14, 1971

Joint RILEM-ASTM-CIB Symposium on the Performance Concept in Building
Philadelphia, Pennsylvania, U.S.A.; May 3-5, 1972

1972-73

Symposium on Teaching the Teachers in Building Climatology (CIB S-4)
Stockholm, Sweden; September 4-6, 1972

Colloquium topics to include: (1) the importance of using meteorological data in planning and building practice; (2) the analysis and application of physical data; and (3) teaching methods.

Symposium on Thermal Comfort (CIB W-45)
Building Research Establishment, Garston, United Kingdom; September 13-15, 1972.

Papers and discussion to focus on requirements for comfort including: (1) criteria of thermal comfort; (2) environmental parameters; and (3) differences relating to different activities.

Symposium on Thin Plates and Sandwich Panels (CIB S-56)
Vienna, Austria; February 1973*

*Date tentative

VII. CIB PUBLICATIONS*

<u>NUMBER</u>	<u>CIB REPORT TITLE, PAGES, PRICE:</u>
1	<u>Rain Penetration Investigations,</u> 27 pages, SW. Frs. 5,--
2	<u>Units in Rain Penetration Studies,</u> 18 pages, SW. Frs. 5,--
3	<u>A Master List of Properties for Building Materials and Products,</u> 20 pages, SW. Frs. 2,--
5	<u>The Production of Concrete of Uniform Color and Free from Surface Blemishes,</u> 28 pages, SW. Frs. 15,--
6	<u>Building Classification Practices,</u> 25 pages, SW. Frs. 15,--
7	<u>Selective Examination and Assessment of Research in France, Israel, and the United Kingdom in the Field of Housing and Building, Applicable in Developing Countries,</u> 48 pages. SW. Frs. 15,--
8	<u>Modern Timber Joints,</u> 584 pages, SW. Frs. 25,--
9	<u>On Methods of Load Calculation,</u> 33 pages, SW. Frs. 15,--
10	<u>Problems of the Programming and Management of Building Research,</u> 32 pages, SW. Frs. 12,--

*Unless otherwise noted, publications are available from the CIB General Secretariat, Weena 700, Rotterdam, the Netherlands. Prices include the cost of surface mail.

- 12 Register of Specialized Equipment in Use in Building Research Organizations,
SW. Frs. 15,--
- 15 Survey of Meteorological Information for Architecture and Building,
22 pages, SW. Frs. 15,--
- 16 Tolerances and Accuracy in Building,
142 pages, D.kr. 68,60
(Available from the Danish Building Research Institute, 20, Borgerade,
DK-1300 Copenhagen, Denmark)
- 17 Low-Rise, Lightweight Constructions,
SW. Frs. 25,--
- 19 Methodology of Cost Comparisons,
15 pages, SW. Frs. 10,--
- 20 Fully Developed Fires in Single Compartments,
In press

SPECIAL INTEREST PUBLICATIONSThe Fifth CIB Congress Book:Research into Practice, the Challenge of Application

Volume 1, 700 pages; Volume 2, 188 pages; SW. Frs. 200,--

(Available from C.S.T.B., 4 avenue du Recteur Poincaré, Paris 16, France)

Focuses on the following general topics: (1) knowledge of natural data and users' requirements; (2) the contribution of science to building; (3) design aids; (4) technology in various branches of the building industry; and (5) low-cost housing.

CIB Directory of Building Research Information and Development Organizations

300 pages, SW. Frs. 40,--

Presents information on the field of work of organizations in 27 European countries and CIB member organizations in 21 other countries as well as relevant international organizations. Includes a name index of countries, organizations, and persons and a subject index.

