

ibpsa NEWS

Winter 1988

International Building Performance Simulation Association, Inc. *Volume 1, Number 1*

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CONFERENCE ANNOUNCEMENT

Building Simulation '89

The International Building Performance simulation Association (IBPSA) announces a two-day conference in Vancouver, BC, Canada, June 23-24, 1989 (immediately before the ASHRAE summer meeting). The conference will be devoted to all aspects of computerized simulation of building performance and has two main objectives:

- To provide a forum for presentation of recent results and developments in the field.
- To allow users of building simulation to learn about the capabilities of building simulation programs.

These objectives will be reached through technical sessions, discussion forums, and

access to building simulation software. The emphasis of the meeting will be on energy-related performance simulation; however, other related areas such as lighting, acoustics, and knowledge-based design methods will be encouraged.

IBPSA was formed in January, 1986, to promote the science of building performance simulation in order to improve the design, construction, operation, and maintenance of new and existing buildings worldwide. Members are international representatives of universities, government and private industry and include architects, engineers, researchers, building managers, and others involved in the use and development of building simulation tools.

To receive more information, address inquiries to Carol Gardner, 5611 Hawthorne St., Cheverly, MD 20785, USA. Phone (202)586-9424.

WHAT IS IBPSA?

by Edward F. Sowell, President

The International Building Performance Simulation Association (IBPSA) officially came into being in January 1987, culminating over three years of meetings and discussions among building professionals. The aim of this new organization is to promote the science of building performance simulation as a means of improving the design, construction, operation, and maintenance of all types of

buildings. Organizers include members of the building industry who use building simulation software, researchers who develop this software, and members of governmental agencies concerned with building performance.

The formation of IBPSA is directly related to the need for new directions in building simulation software foreseen by workers in the field as early as 1983. At a DOE sponsored conference in Leesburg in the Spring of 1983, industrial users of
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programs such as DOE-2, BLAST and proprietary codes met with program developers and researchers to evaluate the status quo and see what new developments were on the horizon or needed. This was followed by two years of discussion and proposals for new sponsored research to address the needs identified at Leesburg. A major milestone along the way was a conference at Seattle in the Summer of 1985 jointly sponsored by DOE and ASHRAE. Subsequently, a composite proposal for the Energy Kernel System was formulated by an international group working at Lawrence Berkeley Laboratory (LBL). That proposal, which was widely accepted, called for a collaborative effort with ongoing guidance provided by an international association. The first meeting of this association, which later became IBPSA, was held in San Francisco in January 1986. After two more meetings and lots of work in between, IBPSA was incorporated as a non-profit corporation in Canada on January 26, 1987. Throughout this process, there has been a growing number of enthusiastic participants, anxious to make IBPSA into a major force in setting future directions in building simulation research and software development.

At its most recent meeting held in Nashville last June, IBPSA embarked on an ambitious program of activities, including plans for a major conference, Building Simulation '89, in June 1989. This conference will bring together practitioners and researchers concerned with building energy analysis programs and other aspects of building simulation. In the meantime, there will be a quarterly newsletter and an annual bibliography of related literature. Other projects set in motion include the development of a long range research priorities list, and the formal elections of a Board of Directors and Officers.

If you are interested in helping guide the futures of building performance simulation, perhaps you should consider joining IBPSA.

PROCEEDINGS AVAILABLE

Second International Conference on System Simulation in Buildings

Proceedings are available from the Second International Conference on System Simulation in Buildings held December 1-3, 1986, at the University of Liège, Liège, Belgium.

ORDER FORM

Please, send me ___ copies of the Proceedings of the Second International Conference on System Simulation in Buildings (Price: B.F. 1 000--, including post and package).

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Please return the present form to:

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Laboratory of Thermodynamics
Rue Ernest Solvay, 21, Bat. C3
B 4000 LIEGE, Belgium*

Building Energy Simulation Conference

Proceedings are available from the Building Energy Simulation Conference held August 21-22, 1985, in Seattle, Washington. To order your copy, contact :

Mr. Edward Knipe, PE
 28231 Ridgpoint Court
 Rancho Palos Verdes, California 90274
 USA

Proceedings are shipped in unbound 8-1/2 by 11 double sided format, 416 pages. To obtain your copy, please enclose a check or money order in US funds as follows:

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CALL FOR PAPERS

Knowledge and Knowledge-Based Systems in Commercial Buildings

A symposium titled "Knowledge and Knowledge-Based Systems in Commercial Buildings" is being sponsored by ASHRAE TC 1.5, Computer Applications, at the ASHRAE Annual Meeting in Ottawa, Ontario, June, 1988.

Computers and computer applications are rapidly becoming an integral part of design, operation and maintenance of commercial buildings and their systems. Most existing and new large commercial buildings are using computer-based systems for operation and control. Some of these computers are equipped with software packages for optimum system operation and preventive maintenance scheduling. Most of this software uses some basic "knowledge" for its predictive operations.

The symposium invites papers which will enhance the membership's understanding

of knowledge acquisition methods for design, operation, and characterization of energy use of commercial buildings, and the process of mapping the available knowledge into a program's knowledge base. Of particular interest will be those papers which deal with issues beyond routine maintenance practice. Possible topics of application of knowledge-based software to commercial buildings include:

- Design of HVAC, lighting, and other energy using equipment
- Formal mapping of energy characteristics of major end uses into knowledge-based software
- Real-time analysis of energy end uses
- Use of historical data for optimization of system operation
- Energy auditing

Abstracts should be submitted to the symposium chairman by January 6, 1988. Completed papers must be received by February 15, 1988. For additional information, call or write the symposium chairman at the following address:

Hashem Akbari
 Building 90-H
 Lawrence Berkeley Laboratory
 Berkely, CA 94720, USA
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ibpsaNEWS is published quarterly by the International Building Performance Simulation Association. Editors are Henry Amistadi and Michael J. Witte. Please send articles and announcements to:

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If possible, please submit material in magnetic form on either IBM-PC or Macintosh diskette. Acceptable formats are: Microsoft Word (MS-DOS or Macintosh), MacWrite, ascii text only, RTF interchange format, PICT format, PAINT format. *Please include a printed copy of the material.*

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