



*ibpsa*NEWS

November 1994

International Building Performance Simulation Association

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IBPSA Secretariat, Candaplan Group Inc., 393 Rymal Rd., West, Hamilton, Ontario, Canada L9B 1V2

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MESSAGE FROM THE PRESIDENT

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MESSAGE FROM THE PRESIDENT

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IBPSA MINUTES OF JUNE 1994 MEETING, *Orlando, Florida.*

IBPSA Board of Directors and General Meeting

A two day meeting of the IBPSA board and members was held in Orlando, Florida, June 25 and 26, 1994, chaired by President Clarke. The objective of the two day meeting was to review IBPSA's policies, present views on what IBPSA should represent, and try to draw consensus of the board members on IBPSA's strategies for the future. Clarke suggested that IBPSA should not align itself with professional societies, but rather, it should be the body that integrates the various technologies - a role much similar to BEPAC. As well, IBPSA might develop alliances to coordinate/complement other organizations and develop products, services, and training.

Those present expressed their views about the objectives of the two day meeting, and after considerable discussion and debate following decisions were reached:

- IBPSA encourages the formation of regional affiliates to foster activities at a local and regional level. Guidelines to govern the organization and operation of IBPSA regional affiliates were drafted and are printed in this Newsletter on page ...;
- Status report on BS '95 revealed that costs for the conference will be lower than previous conferences due to indirect subsidies provided by the university. Brochures have been sent to IBPSA, BLAST, and TRNSYS mailing lists, and announcement put in the DOE-2 user news. Non-members who register for BS '95 will automatically receive IBPSA membership until December '95. The remainder of the status report was accepted;
- It was decided to modify the Newsletter based on members' comments and to enhance both the technical and software news elements of the next issues of *ibpsaNEWS*. The next two issues of the *ibpsaNEWS* are scheduled for October '94 and April '95, provided there is adequate technical material to disseminate;
- The Board agreed to give Clarke freedom to utilize \$1500 to promote e-mail and the Bulletin Board;
- A need for a software catalogue describing how to use programs including software reviews for both the public and commercial domain programs was identified. Also, 'Best Practice Notes' in the form of library of papers on software calibration and natural ventilation related to models was discussed;
- Clarke asked board members to submit a statement of what each member wants to contribute (for a normative contribution of around two days per year);
- The process to appoint new Executive Secretary was reviewed and the appointment of Omar Elwedini of Candaplan Group Inc was confirmed barring any significant objections by those who had not yet reviewed either the Request for Proposals or the signed contract;
- Finance report from the Treasurer was accepted and an interim policy to normalise travel cost for board members who have to travel long distances to attend board meetings was adopted;
- It was felt very strongly by all that IBPSA image should be enhanced by publishing articles, sending flyers, Newsletters, conference proceedings to those targeted to receive them;
- Board members were encouraged to provide nominations for the upcoming IBPSA Awards;

Get Connected to the IBPSA BBS

IBPSA has an e-mail bulletin board which operates through the mailbase system in the UK. If you do not have e-mail capability, there are numerous access services available worldwide, some at no charge. If you are unable to find access information for your local area, Mike Witte (USA, phone 708-699-3254, FAX 708-699-3288, e-mail 72000.2576@compuserve.com) will try to help you.

Here are instructions for using the BBS:

To join the BBS list

Send to: mailbase@mailbase.ac.uk
 Message: JOIN *ibpsa* Firstname Lastname
 (Substitute your name for "Firstname Lastname". You will receive a confirmation message from the mailbase system.)

To send a message to everyone on the list

Send to: ibpsa@mailbase.ac.uk
 (Your entire message, including subject, will be sent to everyone who is registered on the list. If you have joined the list, you will also receive a copy of the message.)

To reply to a message

A standard e-mail 'reply' will send your reply only to the original sender. If you want your reply to be seen by everyone, send it to ibpsa@mailbase.ac.uk.

To see who is on the BBS list

Send to: mailbase@mailbase.ac.uk
Message: REVIEW ibpsa

For a list of other commands

Send to: mailbase@mailbase.ac.uk
Message: HELP

SOFTWARE NEWS

Survey Results of the Building Energy Model Usage

This is a short note to thank everyone who was kind enough to complete and return the questionnaire which I prepared about building energy model usage.

To those who are as yet unaware, the questionnaire was designed to get a handle on what individual users think about their models i.e., how easy they are to use, how long they take to learn, how they could be improved...etc.

In particular the analysis will be focussed on comparing the responses of simplified with detailed energy models, so that model developers can be given advice from you the users about what best suits your needs.

I have been advised that it might be of interest if I were to broadcast the details about the number of questionnaires received, about which models and so on. I hope that you find the remainder of this message of interest:

Questionnaires received:	56
Response rate:	53%
UK Responses:	45 - 80%
Overseas Responses:	11 - 20%
Simplified Models:	27 - 48%
Detailed Models:	29 - 52%
Architects Responses:	11 - 20%
Engineers Responses:	17 - 30%
Other (i.e.researchers):	28 - 50%

--- Model Split From The Questionnaires Received ---

MODEL NAME	NUMBER OF O RECEIVED	CATEGORY: Level of Detail
(CATEGORIZED)		
LT	1	1
Anglia Daylight	1	2
ESI-CHECK	3	3
NHER/BREDEM	20	4
Quick/Norma	1	5
HevaComp	1	6
Facet Apache	2	7
SEKI-RES	4	8
Tax	4	9
ESP(-r/+)	4	10

(UNCATEGORIZED)		
EEDO	1	3
Excalibur	2	7
DOE-2E	3	7
HTB2	1	8
Tax/Apache(coupled)	1	9
tab3	1	9
VA114	1	9
CLIM2000	1	10
Radiance	1	10
HVACSIM+	1	10
TRNSYS	2	(?)

I hope that this early news is of interest to you. A summary of the more detailed work will be broadcast hopefully in a couple of weeks. However, if in the meantime you have any queries about this project please do not hesitate to send me a message.

Oh, and it's still not too late, if you have not returned a questionnaire, or would be kind enough to send me an e-mail message with your name and address And I would send you a paper version for prompt completion.

Once again thank you for your kind assistance in completing the questionnaires and even volunteering to do so.

Kind regards,

Darren Robinson

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Electric Dreams

Weekly column for The Asian Age by Rishab Aiyer Ghosh #30, 26/September/1994: Lamplighters in cyberspace

After diving into cyberspace for a while, people are often relieved to temporarily return to brickspace - which is what I call the 'real world'. On the other hand, it would be nice if the knowbots and electronic agents that will one day cater to all your information needs could do the same for your lights and thermostat. Maybe they could learn your personal lighting preferences for different hours of the day, and adapt to your activities and moods. Technology is a decorated excuse for laziness.

When you have the information superhighway at your doorstep, why not invite it inside? Let software reach beyond the World Wide Web into the World Wide Lamplighter, let programs change more than your accounts or your photographs, and you've opened up a whole new area of information technology - appliance control.

Gadgets have been controlled by computers long before the infobahn was even dreamt of. Large, cumbersome gadgets that manufacture jet engines or process iron to steel. But your bedside lamp still waits for you to turn it off. Appliance control devices basically help you turn your bedside lamp off for you - they control the resistance in a light dimmer, or the current to a motor that opens a door, or the thermostat of an air conditioner. Appliance control devices are themselves controlled by software. The software could come from anywhere - even an electronic network. Cyberspace meets refrigerators.

Appliance controllers could be attached to everything. One for each lamp, power point, door, window shade and chair leg. All the controllers will be networked, so that they can talk to each other, to the set-top box on an interactive TV or to a notebook computer at the other end of the world. To intelligent agents, the digital butlers trained to learn your preferences as you work in the realm of information, talking to an appliance controller would be as natural as searching for a book in an electronic library. Feedback sensors associated with appliances could inform the agents how you like your pizza, or when to darken the room as you fall asleep, reading. They would also switch things off as you leave the room, saving you the trouble as well as the pangs of guilt. Of course it would be like living not with Big Brother, but dozens of little Lilliputian ones, watching, listening and working for you.

To realize this dream, in 1988, Apple Computer co-founder Mike Markkula started Echelon, a company to promote and manufacture networked appliance controllers. Echelon's controller, the Neuron chip, is a little device that talks to the universe through radio.

Echelon hopes that its product will become the standard and start appearing just everywhere, but for the moment the major market is industrial. Manufacturers long used to computers controlling devices that build cars and trains are beginning to place appliance controllers within them.

A Motorola study suggests that the average home in the year 2000 will have a little under 250 controller chips, but currently homes have only 50 or so, mainly in VCRs, microwave ovens and other hi-tech devices. So until twenty-first century consumers are ready for synchronized lights that turn on as you enter the room, and are willing to trust the complex software that will drive large controller networks, cyberspace pioneers will just have to dream on.

Blurring the boundaries between cyberspace and brickspace, between information and reality, appliance control devices and networks can greatly increase the efficiency of living. They can save energy, improve security, and make you feel quite pampered in a comfortable home. Unless, that is, your sulking apartment refuses to let you in.

Rishab Aiyer Ghosh is a freelance technology consultant and writer. You can reach him through voice mail (91 11 3760335) or e-mail (rishab@dxm.emet.in). (C) Copyright 1994 Rishab Aiyer Ghosh. All rights reserved.

IBPSA Products:

To date IBPSA's 'product' has been confined to conferences and publications - in the form of newsletters, information papers and technical reports. Given the current (relative) stability of the organisation, the time is perhaps right to consider how we might play a more active role in program construction, testing and application. In the longer term, the aim might be to evolve a modelling framework - within which a variety of programs could fit - and a modelling philosophy - within which a variety of assessment methods could coexist.

In an attempt to promote some discussion on this subject, there follows some possible initiatives which IBPSA could try to address as and when opportunities arise and resources permit. What do you think?

Program Directory:

Summary statistics on existing programs updated regularly to reflect ongoing developments. Based on a simple questionnaire with returns made available in book form and electronically via this BB.

List of Approved Courses:

Summary statistics on appropriate courses with the longer term aim of approving those courses by encouraging the incorporation of elements suggested by IBPSA.

Newsletter Program Features:

A series of program profiles each one based on an in-depth interview with a program vendor or author. The possibility also exist to feature interesting applications by the program's users.

Technical Issues File:

Reports addressing the types of technical issues relating to program construction and application in practice. Could build over a period of time into a useful compendium of facts and know-how.

Commissioned Case Studies:

Major publications describing, in detail, how a particular program was used in a design or research context. The aim would be to achieve a level of detail which would facilitate the replication of the described approach to other cases.

Training Template:

The production of training guidelines in an attempt to stimulate appropriate training and, subsequently, normalise the activity.

Negotiated Course Discounts:

Discounts offered to IBPSA members who wish to attend current and future training courses in areas related to IBPSA interests.

Negotiated Licence Discounts:

Discounts offered to IBPSA members wishing to acquire educational or commercial licences for IBPSA approved programs.

Software Library:

A library containing programs which can be made available to IBPSA members at no cost (public domain software) or at discounted cost (after agreement with vendors) via ftp transfer.

Educational Products:

Special versions of existing commercial and research programs specially tailored to specific educational tasks. Such developments to be undertaken in collaboration with program owners and subject to negotiated income sharing arrangements.

Best Practice Guides:

Commissioned reports describing the application of well known programs to specific problems.

Bibliography of Publications Concerning Programs:

A maintained and evolving collection of publications which include reference to program construction and/or application topics - e.g. all papers in IBPSA and BEPAC conference proceedings - classified by author, technical issue, design problem, etc.

Joe Clarke

October 1994

ANNOUNCEMENTS***ibpsa*NEWS**

*ibpsa*NEWS format is changing! Its contents will include the following topics (based on availability of pertinent material) in the future: Message from the President; Precis of IBPSA Meeting(s); Software News/Articles; Announcements of all types; Paper Reviews; Calendar of Events; Communications; Advertisements; and the usual information on IBPSA Officers and Board of Directors, and IBPSA Mission, Vision etc. You are encouraged to contribute material towards any of the topics mentioned and suggestions to improve the quality of the publication. *ibpsa*NEWS will be published twice annually in October and in April. This publication is late due to a number of delays in receiving printable material.

This is your publication. So, please make it happen.

IBPSA Regional Chapters**Preamble**

The International Building Performance Simulation Association (IBPSA) is a non profit making organisation which was first incorporated in Canada in January 1987. The Association's principal aim is to promote and advance the practice of building performance simulation in order to improve the energy and environmental performance of new and existing buildings.

IBPSA seeks to achieve its goals through the establishment of a range of apposite products and services aimed at informing and empowering those who are involved in the construction industry and who seek to utilise computer-based tools to good effect. To this end, the IBPSA Strategy Plan identifies nine specific areas which encompass the organisation's activities. These are:

- + Strategic Alliances with professional organisation such as the engineering and architectural societies. The intention is to engender a better understanding of the profession's requirements and the technology's potential.
- + International Conference Series to periodically collate and preserve those developments which comprise the contemporaneous state-of-the-art.
- + Technical Development Programme aimed at influencing the direction the technology of building simulation might take at any given point in time.

- + Educational Initiatives concerned with the teaching of building simulation in the higher education institutions and in the context of continuing professional development
- + Harmonisation Activities in an attempt to regularise the application of the different modelling systems through the definition of standard methods for performance assessment and the provision of standard support data
- + Member Recruitment aimed at extending the IBPSA products and services to those practitioners who can most benefit from the new technology.
- + Products and Services devised in response to the profession's evolving needs.
- + Technology Transfer concerned with the delivery of training in all aspects of computer-based performance assessment at the design stage and post occupancy.
- + Regional Development to subject the foregoing activities to appropriate regional influences and enable their effective delivery.

This document addresses the last area concerned with regional development in order to more effectively address local needs and create a mechanism for an international exchange of know-how and best practice.

Rationale

While IBPSA has achieved significant success at the international level - largely through its bi-annual conference programme (Vancouver '89, Nice '91, Adelaide '93 and Wisconsin '95) and worldwide electronic mailing facility - the organisation recognises that it has been ineffective in developing products and services which are appropriate to the day-to-day needs of its members. The underlying causes of this problem are twofold. Firstly, the geographical spread of IBPSA members is wide and gives rise to a requirement to cover disparate work practices, technologies and professional needs. Secondly, IBPSA's organisational structure is such that the coordination of activities at the local (regional) level is problematic. At the same time like-minded but regionally organisations - such as BEPAC in the UK and VABI in the Netherlands - are achieving significant impact at the local level through their seminar, workshop, publications, training and software development activities.

If the construction industry is to be well supported in its attempts to harness effectively the emerging IT and simulation technologies then the establishment of regionally based support organisations is essential. Equally essential is the creation of a structure by which these organisations can affiliate in order to disseminate their know-how and proselytise their local best practice.

Only in this way will the benefits of the new technology be understood and future standardisation enabled. It is against this prospect - of a network of autonomous regional organisations - that IBPSA is encouraging existing or newly formed groups to become IBPSA affiliates.

Structure and Operation

It is envisaged that IBPSA affiliates will be financially and administratively. In practice this means that they are able to raise and deploy their funds as they wish as long as this is done in pursuit of IBPSA's aims and objectives and placed under the control of elected officers. IBPSA, for its part, would concentrate its resources on issues such as inter-region communication, international conferences and product standardisation. In this way IBPSA would complement and empower the regional affiliates in their attempts to inform and support their members in the context of local design issues and concerns. In the longer term it is envisaged that the IBPSA Board would be comprised of regional representatives so that the organisation in future would become truly international.

The following guidelines have been devised to assist with the establishment and operation of an IBPSA regional affiliate.

1. Organisers of a new regional affiliate would be required to seek approval from the IBPSA Board of Directors. This would require the submission of a brief proposal outlining the proposed name, geographic territory, organisational structure and goals and objectives (if different from those included in the IBPSA charter statement). Affiliate status will be granted provided that the organisation does not pursue activities which could in any way violate the purpose and mission of IBPSA. IBPSA and the Affiliate would then enter into a specific agreement by defining their working relationship based on regional considerations prevalent at the time.
2. Regional affiliates may be named "IBPSA <region>" or they may use any other appropriate name followed by "an affiliate of the IBPSA network".
3. For regions with limited financial resources, IBPSA can provide a nominal amount of matching funds to aid the initial set-up of an affiliated organisation.
4. The organisational structure and finances of a regional affiliate will be independent from IBPSA. This means that affiliates will retain all member dues or other funds raised by their activities.
5. IBPSA will provide affiliates with a "starter kit" (at no cost) including items such as camera ready originals of the IBPSA logo, a list of operational

guidelines and contact information for persons available to assist the local organiser

6. The regional affiliate will provide membership data to IBPSA for use in mailing IBPSA materials.
7. Members of the regional affiliates will automatically be full members of IBPSA. Any given individual or organisation will pay dues directly to IBPSA only if there is no regional affiliate operating in their area.
8. IBPSA will mail newsletters and other IBPSA materials to all members of the regional affiliates either at no cost or at a nominal cost depending on the circumstances. Other services may be provided by IBPSA to the regional affiliates for a fee.

Becoming an IBPSA Affiliated Organisation

If you would like to become an affiliated organisation then please write to the IBPSA President or Executive Secretary at:

President:	Executive Secretary:
Professor J A Clarke Energy Systems Research Unit James Weir Building University of Strathclyde Glasgow G1 1XJ Scotland	Mr O Elwedini Candaplan Group Inc 393 Rymal Rd., West Hamilton, Ont. Canada L9B 1V2
email: joe@esru.strath.ac.uk tel: +44 41 552 4400 ext 3986 fax: +44 41 552 8513	74561.655@CompuServe.COM +1 416 2261521 +1 905 3893885

IBPSA AWARDS

The International Building Performance Simulation Association (IBPSA) makes two awards for outstanding work in the building simulation field. These awards are made on a biannual basis at each Building Simulation Conference, providing there are qualified candidates. These awards are:

IBPSA Award for Distinguished Service to Building Simulation

This award recognizes an individual who has a distinguished record of contributions to the field of building simulation, over a long time period. The award consists of a certificate and \$500 (US). Nominations should summarize the individual's contributions to the field and history of involvement with building simulation.

IBPSA Outstanding Young Contributor Award

This award recognizes a young individual who has demonstrated potential for significant contributions to the field of building simulation. The award consists of a certificate and \$500 (US). Nominations should summarize the individual's contributions to the field and assessment of potential for future contributions.

These awards will be made next at the Building Simulation '95 conference in Madison, Wisconsin. Evaluation of nominations will be made by the Honors and Awards committee of the IBPSA. Final decisions will be made by the IBPSA Board of Directors. In order to be considered, nominations should be sent by February 1, 1995 to the chairman of the Honors and Awards committee:

Nominations due	2/1/95
Dissemination of nominations to awards committee; awards committee evaluation; awards committee makes recommendations to board	3/1/95
Board votes	3/15/95
Winners are informed	3/15/95

Jeffrey Spitzer
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FAX: (405)744 7873

E-mail nominations are encouraged.

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US Mail: Oklahoma State University
School of Mechanical and Aerospace
Engineering
218 Engineering North
Stillwater, OK 74078

Status of BS '95

The 4th International Building Performance Simulation Conference, to be held in Madison, Wisconsin, August 14-16, 1995, is in the final planning stages. All indications are that the conference will be a successful event. All prospective authors of technical papers are encouraged to submit their manuscripts by the due date of 15 February 1995. Acceptance of papers will be

completed by 15 April 1995. Final papers are due by 1 June 1995.

The topics to be discussed in formal paper presentations and software demonstrations are: Fundamentals of Building Processes; Building Construction Simulation; Building Operation; Computer Implementation; and Simulation Applications. Accepted papers and descriptions of software will be published in the proceedings.

For details about the conference please contact:
John Mitchell, Professor; University of Wisconsin,
1500 Johnson Drive, Madison, WI, 53706-1687, USA.
Phone: (608)262-5972.
Fax: (608)262-8464;
e-mail: mitchell@engr.wisc.edu

Operational Guidelines:

I would like to give you an update on the current position with respect to IBPSA regionalisation. At the present time Omar and I are working on an 'operational guidelines' document for possible distribution to regions to inform them of the services and products IBPSA seeks to offer. This document will evolve in three stages.

- a. Omar and I establish an initial draft which will be completed by Saturday 3 December for presentation to the partial Board meeting in Oxford.
- b. The full Board are given the opportunity to comment and make suggestions for improvement against a deadline of, say, January 20 1995. (Of course, if progress on the draft is good, we will transmit a copy to the Board before 3 December so that we can have your comments in hand at the Oxford meeting.)
- c. Existing IBPSA members are then sent a refined version for comment.
- d. The document is published.

If the consensus at stage b) is good then I plan to use part of the document in a communication to selected individuals around the world inviting them to consider the establishment of an IBPSA region. I would very much like to do this before the end of the year.

Yesterday I attended a BEPAC Board meeting where the prospect of BEPAC becoming an IBPSA affiliate was discussed. I am pleased to report that this was well received and I have been authorised to take the matter further. With the IBPSA Board's approval (please email me your response) I would like to invite the BEPAC Secretary/ Treasurer to (part of) the upcoming Oxford meeting.

I have also had (what I believe to be) genuine declarations of interest from (opinion forming) individuals in Belgium, Brazil, France, Italy, Kuwait, Slovakia, South Korea and The Netherlands.

Mailing Lists:

In recent weeks it has been noticed that there exists different work practices with respect to the IBPSA mailing lists as now established. On some occasions this has meant that some discussions will appear somewhat disjointed to some people. While you are of course free to use the facility as you think best, IBPSA suggests the following

1. Any business which is of interest only to the Board - e.g. issues of finance, IBPSA strategy, management, etc. - be broadcast to
ibpsa-board@mailbase.ac.uk

so that all board members are kept well informed. Curt Pedersen has consented to arrange for the onward transmission of these messages (by fax) to the two Board members who do not have email facilities.

2. Any business which is of general interest - such as upcoming events (e.g. BS'95), policy statements after Board ratification, etc. - be broadcast to

ibpsa@mailbase.ac.uk

so that IBPSA members can be kept well informed.

For your information a 3rd IBPSA list is now established at the request of Per Sahlin. This relates to the NMF project and the list is ibpsa-nmf@mailbase.ac.uk.

The IBPSA Australasian Chapter is hosting its first function in November.

Australia is expecting about 30 people to the one day Workshop - the first event held by the Australasian chapter of IBPSA. Participants from Australia, New Zealand and Japan include academics, researchers, engineers and students. Nine papers are being presented:

- | | |
|--------------------|---|
| Dr Angelo Delsante | "Some Issues in modelling concrete slab-on-ground floors in houses" |
| Dr Paul Bannister | "Decision Support Tools for Building Code Energy Efficiency Compliance" |
| Dr Tetsuo Hayashi | "Passive system simulation program TrP for dwellings" |
| Mr Steve Moller | "BUNYIP - A New Lease of life" |
| Mr Tony Isaacs | "What's the point of House Energy Rating?" |

- Mr Yuguo Li "A note on the general thermal boundary conditions in indoor air flow modelling"
- Mr Denis Joseph "Do clouds make a difference to cooling loads?"
- Mr Murray Mason "Modelling lighting controls for energy programs"
- Mr Terry Williamson "A note on heat flow through concrete slab-on-ground"

The afternoon sessions will consist of round table discussions about the current state of building performance simulation in Australasia and the role of IBPSA. The Workshop will provide a venue for building performance simulators working in the Australasian region to get together and discuss their work. We anticipate that a number of issues of particular interest to this part of the world will be raised and that the Workshop will provide the opportunity for future collaborative links between participants.

For details contact workshop secretariat
H Bennett
Faculty of Architecture and Urban Design
University of Adelaide, Australia, 5005
fax +618 303 3836
e-mail hbennett@arch.adelaide.edu.au

CALENDAR OF MEETINGS AND CONFERENCES

1995 Winter Consumer Electronics Show
January 6-9, 1995
Las Vegas, Nevada
(202) 457-4900

DA/DSM '95
Global Conference and Exhibition on Managing Distribution and Demand, Leveraging Information Technology and Surviving Competition
January 23-25, 1995
San Jose, California
(713) 621-8833, fax: (713) 963-6284

Upgrading to Intelligent Building Technology
University of Toronto and EPIC in cooperation with CABA
January 26-27, 1995
Toronto, Ontario
(416) 849-8090

1995 ASHRAE Winter Meeting and International Exposition
January 28-February 1, 1995
Chicago, Illinois
(203) 221-9232, fax: (203) 221-9620

The 1st International Congress on Intelligent Buildings
February 6-8, 1995
Tel Aviv, Israel
011 972-3-7516422; fax: 011-972-3-7516635

Energy Efficiency and the Global Environment
February 8-9, 1995
Newport Beach, California
(610) 667-2160, fax: (610) 667-5593

Energy in a Changing World
Canadian Electrical Association's Annual Conference
March 26-31, 1995
Vancouver, B.C.
(514) 937-6181; fax: (514) 937-6498

8th Annual Technology Utopia Exhibition
(Innovative Concepts, Systems and Prototypes including Tomorrow's Multimedia)
April - December 1995
Tokyo, Japan
011 44-71-328-6100

Hannover Fair '95
The Marketplace of World Industry
April 3-8, 1995
Hannover, Germany
(416) 364-5352; fax: (416) 364-6557

2nd International Conference on IAQ, Ventilation and Energy Conservation
May 10-12, 1995
Montréal, Québec
(514) 848-3192

Smart '95 - Telecommunications, the Enabling Infrastructure
11th Annual General Assembly of the World Teleport Association
September 12-16, 1995
Toronto, Ontario
(416) 581-4177; fax: (416) 593-5335

Comment on the IBPSA 'tools' survey...

Some tool vendors/development groups are on this e-mail discussion list. Can the survey be formatted such that we (and others) could get a copy via e-mail. This might also allow for comments on the survey form and get things ticking over...

Jon Hand, ESRU, Glasgow Scotland

Goals

Following goals were identified at the inception of IBPSA:

- Identify problems within the built environment that may be solved by improved simulation tools and techniques;
- Identify the performance characteristics of buildings on which simulation should be focused;
- Identify building performance simulation research and development needs and transfer new developments to the user;
- Promote standardization of the building simulation industry, and
- Inform and educate its members and the public regarding the value and the state-of-the-art of building performance simulation.

General Strategy

The areas of interest of IBPSA are all aspects related to building simulation, including building model development, evaluation, use in practice, standardization, integration and technology transfer.

Multi-year Program Initiatives, defined and launched by the IBPSA Board, are the framework in which every IBPSA activity must fit.

IBPSA's strategy as an international not-for-profit organization, is based upon seven principles:

- Building membership.
- Pursue sponsors.
- Serve clients.
- Sponsor pre-competitive initiatives.
- Foster building simulation.
- Establish strategic alliances.
- Ensure communication.

For Information On IBPSA Contact:

The IBPSA Secretariat Omar Elwedini, IBPSA Executive Secretary, 393 Rymal Road West, Hamilton, Ontario, Canada L9B 1V2. Tel. (905) 389-3893, Fax. (905) 389-3885.

IBPSA - APPLICATION FOR MEMBERSHIP Jan. 1995 - Dec. 1995

I wish to apply for membership in the International Building Performance Simulation Association
(IBPSA)

CIRCLE ITEMS IN EACH CATEGORY**Areas of Interest**

Analytical Techniques
Component Simulation
Computer Science
Computer-Aided Design
Control Systems
Development Applications
Marketing Applications
Measurement Techniques
Optimization
Policy Applications
System Simulation
Other _____

Profession

Architectural Engineer
Business Administration
Chemical Engineer
Civil/Structural Engineer
Designer
Electrical Engineer
Mathematician
Mechanical Engineer
Operation Researcher
Physicist
Other _____

Company/Institution

Architect
Consulting Engineer
Contractor
Equipment Manufacturer
Federal Government
Local Government
Research Institute
State Government
University
Other _____

Professional Duties

Academic Research
Applications Research
Building Engineer
Building Designer
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IBPSA (the International Building Performance
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built environment.

Mission

IBPSA is founded to advance and promote the science of
building performance simulation in order to improve the
design, construction, operation and maintenance of new
and existing buildings worldwide.

Vision

To take a leading role in the promotion and development
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practitioners to review building model developments,
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