



# IBPSA Houston

## Monthly Publication Newsletter

International Building Performance Simulation Association

*"IBPSA is a non-profit international society of building performance simulation researchers, developers and practitioners, dedicated to improving the built environment."*

Volume 1, August 2009

### Quote for the month....

*Success consists of going from failure to failure without loss of enthusiasm*  
Winston Churchill

**The 11th International Building Performance Simulation Association Conference and Exhibition** was held at the University of Strathclyde in Glasgow, Scotland from 27th to 30th July 2009. Some of the interesting presentation topics which covered modeling future energy demands, phase change materials, natural ventilation, low carbon heating/cooling, heat & moisture modeling, modeling controllers & CFD include:

- Modeling the global warming effect on indoor temperature peaks & cooling systems consumption - Timea, Denes-Bejat; Emmanuel, Bozonnet; Isabelle, Calmet
- Numerical method for calculating latent heat storage in constructions containing phase change material - Rose, Jørgen; Lahme, Andreas; Christensen, Niels Uhre; Heiselberg, Per; Hansen, Magne; Grau, Karl
- "O-Zone": automatic generator of zonal model dedicated to dynamic simulations of air flows and heat transfers in a room - Tasca-Guernouti, Sihem; Musy, Marjorie; Hégron, Gérard
- Dynamic simulation of a complete solar assisted air conditioning system in an office building using TRNSYS - Thomas, Sébastien; André, Philippe
- External coupling of BES and HAM programs for whole building simulation - Cóstola, Daniel; Blocken, Bert; Hensen, Jan
- Application of ANN (Artificial-Neural-Network) in Residential Thermal Control - Moon, Jin Woo; Jung, Sung Kwon; Kim, Jong-Jin
- Application of CFD in building performance simulation for the outdoor environment - Blocken, Bert (1); Stathopoulos, Ted (2); Carmeliet, Jan (3); Hensen, Jan (1)

### Highlights . . .

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More details on other presentations:

[http://www.bs2009.org.uk/misc\\_docs/bs2009\\_programme.pdf](http://www.bs2009.org.uk/misc_docs/bs2009_programme.pdf)

## Founding of IBPSA Houston Chapter

IBPSA Houston Chapter was founded in March, 2009 by Kapil & Ruju of Houston, TX as a follow-up to the Simbuild Conference held at LBNL in 2008. A core realization drives our efforts - that a regional IBPSA chapter would act as a platform for initiating dialogue between researchers and practitioners of building performance simulation on a multitude of topics.

The engineering community responded very favorably to this call and our very first meeting was attended by 7 engineering firms along with 2 architecture firms.

Building performance simulation encompasses energy modeling, cfd, lighting, air flow, weather simulation, renewable resource generation, controls modeling, etc. which are needed by designers at various design phases. We look forward to ways of expanding our knowledge base to be able to create awareness in the design community of tools and technologies that would take Houston to the leading edge in green buildings.

## Introducing your IBPSA Houston Officers!!!

### President



**Kapil Upadhyaya, LEED AP**

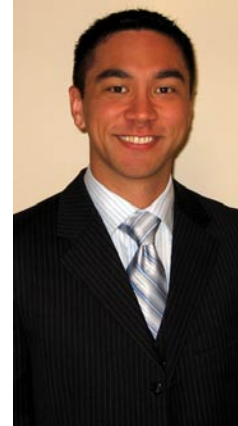
Energy Analyst, Kirksey

MS Arch, TAMU, B. Arch (h), IIT Kharagpur

Having pursued his interests in geomorphic architecture by working for architecture and landscape architecture firms, Kapil joined M.S.Architecture at Texas A&M to learnt to quantify architectural design decisions. Presently, he works as an energy and daylighting analyst at Kirksey to facilitate an integrated design process.

## Introducing your IBPSA Houston Officers (Cont)

### Vice President



**Landon Nemoto**

Mr. Nemoto is a staff professional of Apollo BBC, Inc., a forensic consulting firm focused on diagnosing and resolving problems with buildings. His responsibilities include technical analysis, field-based evaluation, and project management. Apollo BBC provides its expertise and integrated services (structural, building envelope, and mechanical system) to its clients nationwide

Mr. Nemoto is experienced in the areas of Building Enclosure Analysis, Forensic Analysis, and Building Commissioning. He holds a Bachelor of Science degree in Engineering Science from the Trinity University and a Masters of Science in Mechanical Engineering from The University of Texas in Austin. Mr. Nemoto is an Associate Member of the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) and a Member of the Society for Marketing Professional Services (SMPS).

Key professional interests include forensic analysis and remediation of indoor comfort problems, mechanical systems design, and building commissioning.

## Introducing your IBPSA Houston Officers (Cont)

### Secretary



**Jonathan Curtin**

After receiving a Mechanical Engineering BS from Binghamton University ('99), Jonathan began his career as a facility engineer for IBM in its birthplace in Endicott, NY. In 2007, he received his Masters of Mechanical Engineering at Texas A&M University, while working in the Energy Systems Lab on campus conducting research in the field of building energy fault detection and diagnostics utilizing simplified simulation methods. Since 2007, Jonathan has been a project engineer with Wylie Consulting Engineers primarily focused on energy/sustainability engineering as it applies to enhancing design/operations and achieving LEED certification, including energy modeling per LEED EA credit 1.

### Treasurer, Newsletter Editor

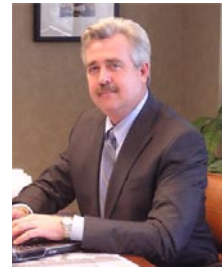


**Richard Stalnaker, E.I.T.**

Richard received a Mechanical Engineering BS with a Minor in Engineering Management from Old Dominion University in Norfolk, VA. He has been working as a mechanical engineer for 10 years, with a focus on special systems and energy plant simulation and modeling. He currently works with Redding Linden Burr Consulting Engineers in Houston.

## Introducing your IBPSA Houston Officers (Cont)

### Research Liaison



**David MacLean**

David joined CHP & Associates in 2007 and works as a manager of a Sustainable Design Team.

After having served 12 years as a military officer, he earned a Bachelor of Science Environmental Engineering from North Carolina State University in 1997.

During nine years as a System Engineer with The Trane Company, he assisted owners and engineers in the analysis of cooling plant systems and in the selection of operating strategies and equipment enhancements to improve overall operating efficiency.

David is currently the Sustainability Manager for the new George W. Bush Presidential Library in Dallas and is heading up the design team for Moody Gardens Complex capital improvements and Annette Strauss Artist's Square for the Dallas Center for the Performing Arts.

David is an active member of ASHRAE, NSPE, USGBC, and ASHE. Since 2003, he has been a LEED Accredited Professional.

### Mini Malhorta



**Webpage Manager**

Mini is an Architect with a specialization in building energy modeling. After receiving MS in Architecture, she is continuing her research as a PhD candidate at Texas A&M University. Her research interests include residential energy efficiency and renewable energy technologies. Currently she is working in the Energy Systems Laboratory on campus as a Research Assistant.

## Call for Articles

As you are aware, this is the first of many monthly publications to come from the newly formed Houston IBPSA group. This newsletter will serve as a wonderful tool to circulate useful information and upcoming events across the modeling community. This newsletter will be an interactive publication amongst us all to provide the latest events and information to the readers, and with all of us providing the most current information we can to be published, we here at IBPSA Houston Chapter believe we will all benefit from each other. If you have any information about an upcoming event that you think would interest our readers, or an article you would like to see published in this newsletter, please forward any and all information you may have to **Richard Stalnak**er, [rstalnak@rlbengineers.com](mailto:rstalnak@rlbengineers.com), newsletter editor. If email is not available, forward to Richard in care of Redding Linden Burr, 801Travis, Suite 2000 Houston, TX 77002, or fax to my attention at 713-237-9801. All comments and information are greatly appreciated. Please include name, address, phone number and email address for source identification. Together we will make this a useful tool for us all.

## Have Others Join Our Distribution List

This newsletter is a free monthly publication for the building modeling community. If anyone you know would like to receive this publication, please send their name and email address to Richard Stalnak [er@rlbengineers.com](mailto:rstalnak@rlbengineers.com).

## Are You a Member???

If not, you are in luck!!! The IBPSA-USA Board of Directors has voted unanimously to extend their policy of free membership. To become a member, simply fill out the application form found at the address below:

<http://www.ibpsa.us/membership.shtml>

Existing members may use the form to renew their membership or update their contact information. Membership in IBPSA-USA also grants automatic membership in IBPSA-World

## Program Calendar

<u>August</u>	<u>Event</u>	<u>Sponsor</u>
19	LEED NC 2009 Workshop @ 3 Greenway Plaza Conference Room	USGBC
26	USGBC Members Only – A LEED Night @ Houstonian Hotel	USGBC
<u>September</u>		
16	LEED for Schools Workshop @ 3 Greenway Plaza Conference Room	USGBC
TBD	Energy modeling plug-ins in 3d modeling tools; Membership duties	IBPSA

## Houston IBPSA Officer List

<b>President</b>	Kapil Upadhyaya, Kirksey	<a href="mailto:kapilu@kirksey.com">kapilu@kirksey.com</a>
<b>Vice President</b>	Landon Nemoto, Apollo BBC	<a href="mailto:lnemoto@apollobbc.com">lnemoto@apollobbc.com</a>
<b>Secretary</b>	Jonathan Curtin, Wylie Consulting Engineers	<a href="mailto:jcurtin@wylieassociates.com">jcurtin@wylieassociates.com</a>
<b>Treasurer</b>	Richard Stalnaker, Redding Linden Burr	<a href="mailto:rstalnaker@rlbengineers.com">rstalnaker@rlbengineers.com</a>
<b>Research Liaison</b>	David MacLean, CHPA	<a href="mailto:dmaclean@chpengr.com">dmaclean@chpengr.com</a>
<b>Webpage manager</b>	Mini Malhotra, Phd student TAMU	<a href="mailto:minimalhotra@tamu.edu">minimalhotra@tamu.edu</a>

The IBPSA Houston Chapter Newsletter is a monthly publication. The purpose of the newsletter is to keep professionals in Houston informed of the Houston Chapter IBPSA's activities and of other news in the building modeling community. Articles submitted for consideration in future newsletters should be forwarded to **Richard Stalnaker**, [rstalnaker@rlbengineers.com](mailto:rstalnaker@rlbengineers.com), newsletter editor. If email is not available, forward to Richard in care of Redding Linden Burr, 801 Travis, Suite 2000 Houston, TX 77002, or fax to my attention at 713-237-9801. All comments and information are greatly appreciated. Please include name, address, phone number and email address for source identification. **Information for consideration must be received no later than the 20th of each month prior to the month of publication.**