



Building Simulation 2011

SYDNEY, AUSTRALIA • NOVEMBER 14-16

The International Building Performance Simulation Association (IBPSA) and The Australian Institute of Refrigeration, Air Conditioning and Heating (AIRAH) are proudly hosting Building Simulation 2011; the 12th International Conference of IBPSA, from November 14-16, 2011.

The conference provides a unique forum for the exchange of ideas and information between simulation researchers, simulation developers, building designers, and government legislators. It explores how simulation is helping to improve building performance.

Building simulation is increasingly embedded in the design process through green rating tools, regulation and as a general means of optimising design.

Building Simulation 2011 provides an excellent opportunity to keep up to date with the latest international innovations in the field of simulation and the energy performance of buildings.

driving better design through simulation

Who should attend?

The conference is for anyone working in or learning about the field of building performance simulation including:

- Building designers using simulation
- Architects
- Design engineer and consultants
- Simulation researchers
- Simulation developers
- Building physicists
- Sustainability managers
- Regulators specifying simulation as an assessment methodology



www.bs2011.org

www.airah.org.au/bs2011

Conference organisers



Australian Institute of
Refrigeration, Air conditioning
and Heating

Gold sponsor



Silver sponsor



Bronze sponsor



Conference Chair – Welcome



It's my pleasure to invite you to the 12th international Building Simulation Conference – BS2011, co-hosted by IBPSA and AIRAH. This conference offers a unique opportunity for building simulation practitioners, researchers, regulators, progressive building designers and architects from around the world to collaborate and share the latest cutting edge information to enable a future of better building design and performance.

The conference has received more than 470 full paper submissions, including application papers on case studies of buildings from industry practitioners, so there will be an abundance of information all aspects of building simulation.

We look forward to welcoming you to Sydney in November.

Dr Paul Bannister M. AIRAH
BS2011 Conference Chair

Keynote Speakers



John Mitchell
Principal, CQR
Chair, Australasia chapter -
buildingSMART.
Sydney, Australia

John Mitchell is the Chair of buildingSMART Australasia chapter, who he has extensively lectured for internationally. Beyond his role with buildingSMART, Mitchell is the principal of the consulting company CQR, which focuses on the application of construction information technology, specialising in BIM and open-standard model sharing. He is trained as an architect. The central thread of his professional activity has been the application of computing in the field of architecture and design, and later to the wider industry context of ICT.

Mitchell's focus is appreciating the impact of IT on the whole construction industry both locally and globally, while articulating and implementing the business process changes organisations must make to exploit these new technologies.



Dr Ellen Franconi, PhD, LEED AP, BEMP
Senior Consultant,
Built Environment Team
Rocky Mountain Institute
Boulder, Colorado, USA

Dr Ellen Franconi has worked in the building energy field for nearly 25 years. She has performed simulation analysis to support research, utility demand-side management programs, measurement and verification, and integrated design assistance. Her work is application-focused, giving her first-hand experience of the challenges modellers face. A board member of IBPSA-USA, Franconi is vice-chair of the International Performance Measurement and Verification Protocol (IPMVP) committee.

Dr Franconi will discuss the 2011 Building Energy Modeling (BEM) Innovation Summit with BS 2011 attendees to share the North American perspective on the industry's concerns and paths for solutions.



Professor Dr Ardeshir Mahdavi
Director, Department of Building
Physics and Building Ecology
Chair, Graduate Studies in Building
Science and Technology, Vienna
University of Technology, Austria

Professor Dr Mahdavi's specialises in building physics, energy-efficient and sustainable buildings, computational building performance simulation, and building systems control. He has directed international research efforts around eco-efficient buildings, indoor climate, integrated computational design support systems, building automation, and human factors. He has pioneered the introduction of human ecological reasoning in building science.

He has authored over 400 publications in peer-reviewed scientific journals and conference proceedings. In the last three years, he has been consecutively awarded the "Austrian Building Award" in the research projects category.

Professor Mahdavi's keynote presentation will be on "The human dimension of building performance simulation"

About Sydney

Sydney is one of the world's great cities. It has everything: a spectacular harbour, glorious beaches, world-class sporting activities, fantastic shopping and sightseeing, friendly, easy going people and a sunny Mediterranean climate.

In November the average maximum temperature in Sydney is 26C, making it an ideal time to visit.



Conference Venue **Novotel Sydney Brighton Beach**

A leading venue for meetings and events, Novotel Sydney Brighton Beach is the premier conference facility in southern Sydney. The hotel is located 4 km from Sydney Airport (15 km from the CBD) and directly opposite the beach with spectacular views across Botany Bay. Relax by taking a leisurely walk along the beach or take a stroll around Brighton Le Sands where you will find an array of local shops, cafés and restaurants.

Novotel Sydney Brighton Beach has a range of room types to accommodate the needs of all guests, it offers a variety of facilities including an outdoor swimming pool with spa, restaurant and bar, 24 hour room service, a day spa and health centre with large modern gymnasium, steam room and indoor pool.

Travelling to the venue:

A taxi is the quickest way from airport to the conference venue. The approximate cost for this is A\$20.00-\$25.00. Buses and trains are also available.

From Sydney CBD the train is the easiest way to get to the conference venue, and takes less than 20 minutes. BS2011 will be arranging a shuttle bus service between Rockdale train station and the conference venue in the mornings and evenings.

For more information on this please visit the conference website www.bs2011.org



Welcome Function **5.00pm - 7.30pm** November 13, 2011

All conference participants and accompanying persons are invited to attend the registration and welcome function. This will be a traditional Australian BBQ style function, held on the outside balcony on level 2, Novotel Sydney Brighton Beach.

Light refreshments and finger food and local live entertainment will be provided through the evening.



Conference Dinner **Harbour Cruise** November 16, 2011

The conference will conclude with the conference dinner, to be held on the Starship Sydney, Australia's largest and most contemporary glass cruise boat, giving all guests panoramic uninterrupted views of the harbour. Set over 3 separate levels with 3m high floor to ceiling glass and an open air top deck, Starship offers guests a unique entertaining experience and breathtaking scenery.



Accommodation **Full details click here** <http://wired.ivvy.com/event/YYBH19/>

A range of accommodation is available at discount rates for BS2011 attendees. These range from five star to backpacker style accommodation in Sydney CBD or nearby at the airport.

The 4 ½ star Novotel Sydney Brighton Beach has 200 rooms available for conference delegates from \$214 per night for a single and \$229 for a double, so if you wish to stay at the conference venue we advise that you book in quickly.

For accommodation enquiries please email bs2011@inhouseeventsolutions.com

Spouse and Partner Tours*

Shopping tour

Paddington and East Sydney

Sydney is fast becoming the shopping hub of the fashion savvy, but with so many boutiques where do you start? Your guides will help you navigate your way around the streets of Sydney's fashion jungle and sho in style.



Taronga Zoo

Taronga Zoo is the nation's leading zoological garden, featuring Australia's finest collection of native animals and a diverse collection of exotic species. What makes Taronga Zoo special is its location. Situated on elevated land along the waterfront, it is one of the most beautiful



vantage points on Sydney Harbour, overlooking Sydney Cove, the Harbour Bridge and Opera House.

Bondi beach to Bronte walk

Begun as a state project in the 1930's the Bondi to Bronte Coast Walk is a combination of beaches, parks, spectacular views of Sydney's most famous coastline and the beautiful waters of the Pacific Ocean. The walk includes aboriginal carvings, rock formations and the surfing and beach culture at famous Bondi Beach. The walk winds its way from the Bondi Surf Lifesaving Club, the first Lifesaving Club in the world, over the headlands and sandstone cliffs to the delightful Tamarama Beach, and continues on to Bronte.

Opera House

This is a once in a lifetime opportunity to venture inside one of the great architectural masterpieces of the 20th Century! The Sydney Opera House sits on Bennelong Point surrounded by the beautiful Sydney Harbour. You will learn the story of the Danish Architect Joern Utzon who originally designed this magnificent building. You will also get the chance to view the newly opened Utzon Room and its contemporary styling (subject to availability). Since opening in 1973 the Sydney Opera House has been host to

some of the most memorable artistic performances of our time.



The Rocks

The Rocks is Sydney's historic old town quarter, located between the famous Sydney Harbour Bridge and the Sydney Opera House. A walking tour of the Rocks is the best way to discover the rich heritage of this area. Enjoy tales tall and true as knowledgeable guides take you to historic pubs, colonial cottages, archaeological dig sites, a Gothic church and cobblestone laneways and leafycourtyards. It is also the location for a charming weekend market, with over 150 stalls open from 10am - 5pm.

* Tours will be run subject to the numbers of participants. Registered spouse and partners are also welcome to attend the registration and cocktail welcome, and the conference dinner / harbour cruise.

Pre and Post Conference Tour Suggestions

South Coast

This premier region of New South Wales begins as you travel south from Sydney along the spectacular coastline. The region offers a magnificent diversity of coastal, forest, mountain and rural country. Its natural, unspoiled environment provides the atmosphere for a peaceful, relaxing or adventurous visit in contact with Australia's unique flora and fauna. Enjoy National Parks, untouched beaches, spectacular wilderness, rivers and mountains, the rural life and the big skies of the hinterland.

Hunter Valley

The Hunter Valley is a 2 hour drive north of Sydney. This dynamic region offers some of Australia's best known wineries including McWilliams, McGuigans, Rosemount and Brokenwood, all of which offer cellar door tastings. The region is also home to a number of excellent restaurants and a range of accommodation options. Apart from the wineries there are speciality cheese makers, breweries, olive oil producers, art galleries and display gardens. It is truly one of Australia's great wine regions.

Port Douglas / Great Barrier Reef

Port Douglas is the ideal place to base yourself to explore two of Australia's largest drawcards - the majestic wet tropics rainforests of the Daintree and Cape Tribulation national parks, and the spectacular Great Barrier Reef, the largest coral reef system in the world stretching for more than 2,000 kilometres along the Queensland coast.

There is of course also an abundance of beaches, beautiful scenery, national parks, wildlife, wineries and more to be explored throughout Australia. November is a great time to visit Australia.

