



2008 continued...

As we rush headlong to the middle of the year, CHAA are preparing in earnest for our first ever Centre Review - a UNSW internal process, this 'audit' will provide invaluable feedback to key stakeholders about the Centre's management and performance.

An invited HCAMC representative will participate on the formal Review Panel along with other distinguished guests including Peter Mould of the Government Architect's Office as an external, industry representative. The panel also comprises a number of key academic staff along with UNSW staff external to the Faculty.



australasian health facility guidelines

> HPU Specific Workshops

In 2008, CHAA will continue developing new sections of the Australasian Health Facility Guidelines (AusHFG) and the review of previously released components.

Sections to be reviewed include key areas such as Mental Health, Operating Unit, Inpatient and Medical Imaging Health Planning Units (HPU). To launch the review process for each of these sections, various HCAMC jurisdictions will host a workshop/seminar to share research and to receive feedback from clinicians, managers and designers regarding latest trends in clinical practice, technologies and design that should be considered in updating the Guidelines.

The first workshop was held in Adelaide on 21 April and looked

at the Operating Unit. A range of speakers outlined current trends and information about what is being planned or built for a range of current projects.

The attendees then divided into groups to brainstorm and develop strategies for the key issues identified that will then be considered in reviewing and updating this particular HPU. The presentations are available from the [CHAA website](#).

> 2008 Program of Work

In 2008, the "new" Health Planning Units will include:

- Nuclear Medicine Unit
- PET Unit
- Cardiac Services Unit
- Mental Health Unit for Older People
- Non-Acute Mental Health Unit
- Ambulance Unit
- Main Entry Unit

- Admission Unit
- Public Amenities
- Pastoral Care Unit
- Rehabilitation/Acute Aged Care Unit.

These new Health Planning Units are in addition to the review of six existing Guidelines and Standard Components for Australasian use. To view, [click here](#).





chaa news

> Staff Achievements

Jane Carthey, Dr Venny Chandra & Prof Martin Loosemore had a paper accepted for the CIB W89 International Conference in Building Education and Research (BEAR) in Kandalama, Sri Lanka, 10-15 February, "Adapting NSW Health Facilities to Climate Change - A Risk Management Approach".

Jane, Venny & Martin have also have had an abstract accepted and recently submitted a paper, "Assessing the Adaptive Capacity of Hospital Facilities to Cope with Climate-related Extreme Weather Events: A Risk Management Approach", for the 24th Annual Association of Researchers in Construction Management (ARCOM) 2008 Conference to be held in Wales, UK, 1-3 September 2008.

Prof Frank Becker, Jane Carthey & Prof Johanna Westbrook are presenting an invited symposium "Design for Health: Improving Care Quality" for the 20th International Association People-environment Studies (IAPS) 2008 Urban diversities, biosphere and well-being: designing and managing our common environment to be held in Rome, Italy 28 July - 1 August, 2008.



Jane has been invited to present at the 2nd Annual Disaster Management & Continuums of Care for the Health Sector on the topic of "International Case Study: Assessing the adaptive capacity of hospital facilities to cope with climate-related extreme weather events: A risk management approach" in Wellington, NZ 23-25 June, 2008.

Jane recently presented a paper "Hospitals for the Future: Architectural Design and Pandemic Preparedness" at the Emerging Infectious Disease Control & Pandemic Preparedness Conference, held 17-18 March in Melbourne, VIC.

CHAA researcher Dr Keiko Hirota has had two papers and an abstract accepted to three separate international conferences:

"Post Occupancy Assessment for Post-Disaster Public Housing and Its Method", 11th International Conference on Indoor Air Quality and Climate, Technical University of Denmark, Denmark 17-22 August (abstract accepted);

"Cultural Elements of Design", Oxford Conference: Agenda for Architectural Education, Oxford, UK, 22-23 July (paper accepted); and

"An Architecture Education Program 'Timber Building Pathology'", 10th World Conference on Timber Engineering, Miyazaki, Japan, 2-5 June (paper accepted).

Presentations can be accessed by visiting our [published works webpage](#).

> CHAA Staff out and about

Together with other invited health industry participants (mainly managers and clinicians from major projects around Australia) Jane Carthey and Patrick Chu recently attended a seminar held by international healthcare technology experts Sg2 in Melbourne on 8 April.

The program covered a wide range of issues that are driving technology developments and adoption of these by the healthcare industry world wide. The point was well made as part of a global healthcare community and although innovative in many areas, the Australian healthcare sector also had much to learn from technology developments overseas that will sooner or later impact on our local situation.

Sg2 promotes itself as "a forward-thinking health care research, consulting and education company". For further information regarding Sg2 and to join their free online community website (available to anybody in the healthcare industry) go to:

www.sg2.com





new multi-media approach to risk management for health facility projects

> ROMS - Recently used by CHAA

The potential benefits of effective risk management are enormous and a straightforward, easily implemented approach that embraces innovation and avoids the repetition of past mistakes would be welcomed by the health sector.

An innovative and new approach developed by Professor Martin Loosemore at UNSW, who works closely with CHAA, uses award-winning interactive multimedia technology to engage project stakeholders in the risk and opportunity management process. A multimedia approach such as this has been shown to engage project participants more fully in the process, enhance skills development and training, and perhaps most importantly can influence positive change in the culture of a business. In addition, a workshop facilitator is not required, the use of complex jargon is minimised and the pace of the risk management process can be dictated by the users.

This new approach is called Risk & Opportunity Management Systems (ROMS) and has already been used on projects such as the assessment of climate change risks to hospital infrastructure, a project undertaken by CHAA for the NSW Health Environmental Health Branch. It has also been used by the 2008 Beijing Olympic Organising Committee to manage risk on the Olympic venue construction projects, Brookfield Multiplex to effectively manage technical, financial, operational, IR, environmental, security and safety risks on its facilities and by numerous other organisations in other industries around the world.

For further information about ROMS and multimedia approaches to risk management visit

www.risk-opportunity.com or contact Professor Martin Loosemore at m.loosemore@unsw.edu.au

See also Loosemore, M, Raftery J, Reilly, C and Higgon D (2005) Risk Management in Projects, Second Edition, E and F N Spon, London.

>CHAA Research Update

Changing patterns of rainfall and health facility management

In addition to our work on the Aus HFG, CHAA also undertakes other research of interest to health facility designers and managers. One example is research undertaken in 2007 by Dr Keiko Hirota that looked at hospitals and water use issues such as rainwater harvesting. An article about this will appear in an upcoming issue of UNSW's Uniken newspaper.

Keiko looked at how a hospital's facility management strategies can impact on water use issues, and perceptions regarding how hospitals can use water more efficiently.

"It is an important issue to understand how hospitals deal with water management within their facility, and as such this is one of the key research interests of CHAA and our key funder – the Health Capital and Asset Managers' Consortium of Australia and New Zealand (HCAMC)." Keiko says. "There was no existing data so we started at the most basic level – by sitting down and asking people what they are worried about and what they are doing in their facility. We got a huge response. It really showed how concerned and aware they are of the water shortage issue. Hospitals aren't yet

experiencing life threatening water quality, supply and security problems on a day to day basis but they can see it coming and are keen to act."

According to Keiko the managers didn't only talk about their hospital. They linked their experiences back to their homes and what action they are taking there. "It was interesting that they are so conscious of the issue that they are making links with their everyday life. The use of water in a hospital isn't only a health issue, it is also about cleaning, washing up, watering the grounds, flushing toilets etc. Hospital health services come first but the problem is bigger than that and that is why the managers are making the link to what they are doing at home. Some of this is very practical everyday stuff," she says.

The hospital Keiko has worked closely with has applied for a grant that would allow them to put in water harvesting infrastructure. If they are successful CHAA would be able to evaluate the implementation of this infrastructure including its effect on water usage and use this to build a systematic model for other hospitals to use for managing their water use more effectively. This will contribute to the development of better water management strategies for hospitals and contribute to more environmentally sustainable water practices for health facilities. This is an area of interest closely related to CHAA's research agenda regarding the adapting of health infrastructure to cope with the effects of climate change in Australia and New Zealand.

For further information contact CHAA on CHAA.Admin@unsw.edu.au



> farewell to Prof Becker

Prof Frank Becker spent time with CHAA in early 2008. During his stay, Professor Becker and Jane Carthey conducted a number of workshops: the first was in Brisbane as part of the IQPC Health Facilities Design and Development 2008 conference (at which Professor Becker was also an invited keynote speaker and Jane Carthey a presenter).

A second, similar presentation was held in Western Australia for the WA Health project teams.

The presentations can be viewed by clicking [here](#).

For further information, please email us at: CHAA.Admin@unsw.edu.au

> bookmark of the month

This site is a showcase for some of the most innovative health care architecture and interior design projects across the United States. Here you'll find inspiration for your next health care construction project and links to top health care architecture, design firms and suppliers for the built environment.

www.hfmdesignview.com

> events calendar

HCAMC Workshops to be held (but that are still in the planning stage) include:

- Inpatient Unit – QLD – July 2008
- Medical Imaging – WA – August 2008
- Mental Health – ACT – September 2008

For further information please visit the CHAA website or contact CHAA on CHAA.Admin@unsw.edu.au

> the last word

Our thanks for the ongoing support of all our sponsors from the Health Capital Asset Managers' Consortium (HCAMC) jurisdictions and UNSW sponsors, especially those in the Faculty of the Built Environment (FBE).

Please circulate the newsletter amongst your colleagues, consultants, contractors, etc and encourage them to go to our website at www.chaa.net.au to register for CHAA.Net free membership.

We welcome your feedback and please let us know of any areas of particular interest that we can address in future newsletters. [Click here](#) to email your comments, links for useful resources, news items etc.

Regards,

Jane Carthey
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Centre for Health Assets Australasia



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