



International Union of Architects
WP Public Health Group

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27th International UIA PHG Seminar in Beijing 1 – 6 July 2007.

The Seminar with the overall theme “The architecture of Healthcare Facilities in the coming 25 years” took place in Beijing, the administrative capital of China, from 1 to 6 July 2007.

It started on Sunday, 1st of July, with a cultural tour to the Summer Palace in Beijing, the Grand Tianmen Square and a visit to a Chinese Opera.

The Seminar started on Monday in the Friendship Hotel with many official speakers in the opening ceremony.

There were about 23 speakers and 70 participants, of which about 30 from different parts of China and other countries. The presentations came from all over the world; China, Israel, Japan, America, England, Greece, Germany, The Netherlands, Malaysia, Switzerland, South Africa, Finland and Australia.



The Seminar presentations were finished on Wednesday, 4th of July, after which the director of the PHG, Luub Wessels, ended the Seminar with some concluding remarks.

The three main **conclusions** from the presentations were:

1. Mega Hospitals.
In China and much more places in Asia very many hospitals with 1000 – 3000 beds are still common, while in Europe and also in the USA hospitals are built with mostly less than 1000 beds. More smaller hospitals bring the health care closer to the people, have a better, small scale, environment and are better to manage. It is quite possible that in a few years time also in China the mega-hospitals will be finished.
2. Safety.
Safety has become a very important issue in health care facilities. As well in the context of infection diseases, disasters and criminality as the safety in the built environment for the patients and especially the elderly patients.
3. Basic approach.
It is very important to choose a basic approach for the design of healthcare facilities. That means a good analysis of the logistical problems, decision management, risk management, process management and awareness of the life cycle costs.

All the Seminar presentations can be seen and downloaded from the PHG Website, www.uia-public-health-group.org.

On Wednesday afternoon the **Annual Meeting** took place and in the evening we had a very special, official dinner while watching many different performances.

Thursday and Friday were planned for some **hospital visits**.

We visited the First Hospital of the Beijing University and the Beijing Friendship Hospital on Thursday and the Teda Hospital in Tianjin on Friday.

See **Attachment 1** for more details about the conclusions and the hospital visits.

657. Annual Meeting.

The 4th of July the Annual Meeting of the UIA-PHG took place. Although the minutes will be distributed soon to the members, there are a few things that should be mentioned.

1. New members.
 - Phil Astley, proposed by Rosemary Glenville and
 - Karen Imoberdorf, proposed by Hans Eggen,

were appointed associate members.
2. Coming UIA PHG Seminars
2008. Florence , Italy.
This Seminar will be organised by Roman del Norte. Dated in the week before the UIA Conference in Turin (from June 29 till July 5). Probably the Seminar will take place from June 22 till Friday 27. More details will come as soon as possible.

2009 Buenos Aires, Argentina.

This Seminar will be organised by Astrid Maria Debuchy. Dated in September or October. More details will follow

2010 Malaysia.

This Seminar will be organised by Norwina Mohd Nawawi.

3. Donald C. Axon Memorial Fund

The AIA/AAH / Architecture for Health Foundation has established the Donald C. Axon Memorial Fund for the purpose of education and research in health facilities architecture. This fund can also help the UIA-PHG, for example to support a young architect from a developing country to attend one of the UIA-PHG Seminars.

It was decided at the annual meeting that the UIA-PHG will support this fund on an individual base. Pledges and donations should be made payable to the AAH Foundation, designated to the Axon Fund and sent to: Kurt A. Rockstroh, AIA, ACHA, Steffian Bradley Architects, 100 Summer Street, 9th floor, Boston, MA 02110, USA.

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Relationship WHO and UIA.

Although there have been some proposals from the UIA to try to come to a broader relation between the WHO and the UIA, there has been no reaction from the representative of the WHO, Dr. Andrei Issakov.

Also concerning the WHO guidelines there are no new developments.

We will keep you informed about new information.

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Report of the 10th EU-HPN Workshop in Paris, 23 – 25 April 2007.

By Luub Wessels.

Hosted by the Centre Scientifique et Technique du Bâtiment in association with the Forum Européen des Managers de Santé (France) and sponsored by the Bdpgroupe6.

The Workshop started on Monday, April 23 with a visit to the St. Joseph Hospital. A very good example of renovation of an old urban hospital (originally dated 1875).

In the afternoon there were presentations about “Market concepts in healthcare” and “Regional structure planning”, followed by an open forum debate.

The next day started with “Examples of Methodologies for Strategic Planning”, “Relationships between Investment and health facility operating costs” and “French perspectives on Hospital construction”.

In the afternoon Working Group sessions about “Strategic Asset Investment”, “Architecture and Design” and “Capital Finance and Procurement”.

Wednesday started with “Contemporary trends in mental health services across Europe”, “Projects and Case Studies” and “Design Studies about Dementia”.

At about 13.00 the Workshop was closed.

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Report of the BEX 2007 from 18th to 20th of June 2007 in Valencia, Spain.

By Luub Wessels.

The Building Exchange Conference 2007 took place in Valencia.

The UIA is supporting this Conference.

Geraint John, director UIA-WP Sport & Leisure and Luub Wessels, Director UIA-WP Public Health were appointed as members of the BEX Advisory Board.

The BEX Conference brings together all kind of building disciplines, architects, constructors, engineers, developers, clients, consultants, etc. Networking is one of the main aspects of the conference. There were a lot of interesting workshops and sessions about very different subjects.

Concerning healthcare Johan Arnt Vatman, managing director of Helsebygg Midt Norge (the Hospital Development Project for Central Norway) gave a good presentation about the construction of the St.Olavs Hospital in Trondheim.

Alberto de Rosa, general manager of Ribera Salud, gave a presentation about the construction of some hospitals in Spain. He was very enthusiastic about the Public Private Partnership that was used in all the hospitals. There was enough flexibility in the long term contracts to react to all kind of changes.

Besides the healthcare subjects other interesting presentations were presented.

Nina Nedelykov, Vice President of the Bundes Architekten Kammer (BAK), and Counsel member of the UIA, gave a very good lecture about Historic and Iconic Buildings.

Dong Bin, Chief Marketing Officer of the Beijing Urban Construction Group, gave a clear presentation about the building activities in China and Li Xiaojiang, President of the China Academy of Urban Planning and design, talked about the green-buildings that were just started in China. These presentations were especially interesting because of the PHG Seminar in Beijing in July.

With Geraint John and Sinclair Webster, Vice President of HOK Architects, we made an appointment to meet in London to look at the possibility to work together. The idea is that sports and leisure and healthcare can support each other. Sports and leisure as prevention to become ill, healthcare for sports injuries. Especially for elderly people sport and leisure is important to stay fit. It can have a important place in housing for the elderly.

The congress was closed on Wednesday, 20th of June, by Jamie Lerner, former President of the UIA. More information: www.w-e-x.com

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Report of the Multi-disciplinary training on planning, design, monitoring, commissioning and maintenance of Hospital Projects in Malaysia.

By Ar. Norwina Mohd Nawawi

The training is part of the country's effort to equip multi disciplinary staff of the two agencies, Ministry of Health and Public Works Department Malaysia, with necessary skills to execute the government program for facility development. The training is in preparation for the 5 year development plan for the country. The current plan from 2006-2010 is the 9th Malaysian Plan.

For more details see **attachment 2**.

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Coming events.

1. SAFHE & CEASA 2007 National Biennial Conference & Exhibition
17 – 19 October 2007 in port Elisabeth / South Africa.
“African Solutions to Integrated Healthcare”

Organized by the South African Federation of Hospital Engineering, and the Clinical Engineering Association of South Africa. In association with the UIA-Public Health Group. The Program Chair is taken by Geoff Abbot, Executive and Official Member of the UIA-Public Health Group. More information: www.sbs.co.za/safhe

2. 35th IHF Biennial Congress , 5-9 November 2007, Seoul, South Korea

The IHF World Hospital Congress is a biennial event that serves as a venue for exchanging the latest information on world healthcare policies and managerial issues of hospitals. This IHF 35th World Hospital Congress in Seoul, expecting 3,000 participants from over 100 countries, is certain to be a global affair where new knowledge on hospital management is acquired and such hospital-related industries as pharmaceutical, medical equipment, Information Technology, Biology Technology, and Nanotechnology sectors are promoted.

The theme of the congress is “Vision and Strategy for Ubiquitous Healthcare” which is focused on improving seamless healthcare across all healthcare settings and contexts.

Last February we distributed the invitation letter of the Organizing Committee of the IHF 35th World Hospital Congress. They invited the UIA-Public Health group to participate in this congress. They would be honoured to have us as a special organizer of Parallel Session 9, scheduled on November 7, 2007.

In the meantime we have organized this PHG Session on Wednesday, November 7th, from 15.20 – 17.20.

The order of speakers is:

1. Dipl.Ing Henning Lensch, architect / Germany:
”Defining a New Architecture for Healthcare Facilities in Europe and Asia;
Comparisons and Lessons learned”.
2. Prof. George J. Mann, AIA architect / USA.
”Recent projects Undertaken at the Architecture for Health Program at Texas A&M University”.
3. Dipl.Architect Karin Imoberdorf, ETH SIA / Switzerland
”The Future Hospital”
4. Ms Cathryn Bang, AIA, architect / US
”Best Practices in Healthcare Planning & Design”
5. Prof.dr. Yasushi Nagasawa, Eng, Dip.HfP, JIA / Japan,
” Situation of the Healthcare Facilities in the mid-21st Century

The Chair will be taken by Ir. Luub Wessels, Msc, architect bna, director UIA-Public Health Group.

Members of the UIA-PHG who only want to attend on Wednesday, November 7th, have a reduced entrance fee of € 100.

For detailed congress information, please refer to the website: <http://ihf.kha.or.kr>

3. *The 5th Gupha meeting 11th- 13th November 2007 in Tokyo, Japan.*

The next Gupha Forum will take place at the University of Tokyo from Sunday 11th till Wednesday 13th of November 2007, at the Auditorium in Hongo Campus of the University of Tokyo.

This Gupha Forum is one of the celebrating activities of the 130th anniversary of the University of Tokyo as well as the celebration of Professor Dr. Yasushi Nagasawa's new assignment of Professorship of Architecture in Kogakuin University (Tokyo Urban Tech), following his 19 years devotion to the University of Tokyo.

This event is immediately following the International IHF Hospital Congress in Seoul and before the International HEAJ Annual Conference and Exhibition HOSPEX 2007 in Tokyo. UIA/PHG members will have an advantage to cover the visits in Korea and Japan together. Congress information has been distributed recently.

See also: www.gupha.info.

4. *6th International HEAJ Conference and Exhibition HOSPEX , 14th to 16th November 2007, Tokyo, Japan.*

Organized by the HEAJ (Healthcare Engineering Association of Japan).

Will be held on Wednesday, 14th till 16th of November 2007, at the International Conference Hall at Tokyo Big Sight, 2-21-1 Ariake, Koto-ku, Tokyo.

The draft schedule on the 14th will be:

- Keynote speech by Ir. Luub Wessels, Director UIA-WP Public Health, Senior Adviser of Gupha.
- Visit to HOSPEX JAPAN 2007.
- Lunch at Tokyo Big Sight.
- Visit to the Cancer Institute Hospital Of JFCR
- Reception hosted by the HEAJ and HOSPEX.

See also: www.bigsight.jp/english/.

5. *28th International UIA – Public Health Seminar in Florence, Italy, 2008.*

This Seminar will be organized by prof. Romano del Norte, official member of Italy of the UIA-Public Health Group. The date is not yet set, but will be in the week just before the 23rd UIA World Congress in Turin. More information will be distributed soon.

6. *23rd UIA World Congress on 28th of June to 3rd of July 2008 in Turin, Italy.*

The theme will be "Transmitting architecture".

The venue of the event will be in Lingoto, once the main Fiat factory, converted by Renzo Piano into a convention centre. Congress information has been distributed recently.

More information on: www.uia2008torino.org.

7 29th International UIA-PHG Health Seminar in Buenos Aires, Argentina, September or October 2009.

The Seminar will be organized by Astrid Maria Debuchy, Executive and Official Member for Argentina of the UIA-Public Health Group.

8 30th International UIA-PHG Health Seminar in Malaysia in 2010.

The Seminar will be organized by Norwina Mohd Nawawi, Official Member for Malaysia of the UIA-Public Health Group.

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New Address UIA General Secretariat

On 1st August 2007, the UIA General Secretariat will transfer its offices from 51 Rue Raynouard – 75016 Paris, to 33 Avenue du Maine (Tour Maine Montparnasse) in Paris. The new address is as follows:

U.I.A.

Tour Maine Montparnasse

33 avenue du Maine (47th floor)

BP 158

75775 Paris, cedex 15

Tel: 00 33 145243688 (no change)

Fax: 00 33 145240278 (no change)

E-mail: uia@uia-architectes.org (no change)

Internet: www.uia-architectes.org (no change)

664 Congratulations.

- Warren Kerr, Director Hames Sharley Architects, has been appointed to design the largest hospital project ever in Western Australia.
- George Mann, professor of the Skaggs-Sprague Endowed Chair of Health Facilities Design at the Texas A&M University, is appointed by the AIA/AAH, as the official representative of the USA to the UIA-Public Health Group, as successor of Don Axon.

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In memoriam Don Axon, 1931 - 2007

With deep sadness we heard about the death of Don Axon in May. Many of us paid their condolences and Philip Patrick Sun could read an in memoriam from the UIA-PHG at the funeral.

Don was one of the core members of the UIA-Public Health Group. For very many years he attended the PHG seminars all over the world, with Janice always beside him. His paper presentations were unique and about many different subjects, from earthquake resistant healthcare buildings to logistics of operation rooms and much more. His contributions

to the discussions about healthcare building and about the UIA-PHG organization were wise and very professional. All over the world he was well known for his experience and knowledge in healthcare building.



We will miss his contributions, but most of all we will miss his special sense of humor and his warm friendship.

27th International UIA-PHG Seminar 2007 in Beijing.

Concluding Remarks

First of all I want to thank all speakers for their contributions and the effort to prepare their papers.

We had presentations from all over the world; China, Israel, Japan, America, England, Greece, Germany, The Netherlands, Malaysia, Switzerland, South Africa, Finland and Australia.

What did we learn?

- Health expenditure in China has grown from 3% to 4-5%. In Europe this is about 8 to 10%. There is a shortage of health resources and no real equity in healthcare service.
- Large mega hospitals with 2000 – 3000 beds caused a lot of discussion about the quality of these institutes. We heard about the difficulties to renovate this type of hospitals in the context of privacy, healing environment and management.
- The investment costs of 5,000 – 6,000 RMB's (\$ 650 – \$ 800) per m² for a general hospital in China, versus \$ 3,000 per m² in the USA, says something about the cost of labour in China.
- Infection diseases like SARS have had a huge impact on the safety aspects of the Asian hospitals. China even built a hospital with 1,000 beds in one week for SARS patients.
- What to think of the presentations of prof. Yasushi Nagasawa and prof. George Mann. Both gave in their own peculiar way an intriguing presentation. Prof. Nagasawa showed us at the same time a wonderful view of his country, Japan, and prof. Mann a clear view of his family.
- Then we had the discussion about post evaluation, pre-evaluation, guidelines, design criteria, etc., with the conclusion that you had to balance all the factors into a “balance wheel”.
- These evaluation methods should have been important for the reconstruction of the 500 hospitals in Germany of which prof Peter Korneli told us.
- There was this intriguing question if hospitals could look like designs of Gehri or Koolhaas. Perhaps we should try a design competition between the key architects in the world.
- It was a coincidence that dr. Philip Sun and prof. Bas Molenaar had their presentations after each other, but the basis approach of Philip was wonderfully translated into the design of Bas of the University Hospital in Rotterdam.
- There were some presentations about the traditional values that were neglected in the new hospitals in Asia. But there was no discussion about what those values exactly are.
- Concerning environmental psychology we had an update of our knowledge of books and theories about this subject. It was also good to hear an analysis of the papers which the Public Health Group has presented in the past 4 years.
- About SARS and isolation we have learned that bio-safety and security is developed to an extent that is beyond imaging. You remember the “box in the box” solution.
- Standardisation of rooms, m², medical device technology and much more was a subject that was an important item in several presentations.

- New ideas of hospital design, like the core-hospital, were given. I can remember a far going discussion about the different ways delivery can take place and the consequences for the design. "Delivery tourism" was a term I had not heard before. It indicates that the environment in the hospital is better than at home.
- MDR-TB and XDR-TB are infections with consequences that we are not able to see right now, but should have our full attention. Perhaps the PHG can contribute in this.
- Also this morning the safety of hospitals was brought to our attention in the context of all kind of disasters that can occur in the future, due to climate changes. Focussed on Australia, but it also applies to other parts of the world.
- And it was good to hear that even in Australia the flexibility solution of the Martini Hospital in Holland inspired Australia to the Rejuvenation Cycle.
- Last but not least attention was paid to the group of clients to which we all will belong in the future. The elderly. Especially in China the one-child system will lead to special solutions for the care of elderly. China has lonely children now and may have lonely elderly in the future.

Conclusions:

In my perspective three important subjects arise from the presentations.

1. Mega Hospitals.

In China and much more places in Asia very many hospitals with 1,000 – 3,000 beds are still common, while in Europe and also in the USA hospitals are usually built with less than 1,000 beds. More, smaller hospitals bring the healthcare closer to the people, have a better, small scale, environment and are easier to manage. It is quite possible that in a few years time also in China the mega-hospitals will be finished.

2. Safety.

Safety has become a very important issue in healthcare facilities. As well in the context of infection diseases, disasters and criminality as in the safety of the built environment for the patients and especially the elderly patients.

3. Basic approach.

It is very important to choose for a basic approach for the design of health care facilities. That means a analysis of the logistical problems, decision management, risk management, process management and awareness of the life cycle costs.

UIA-PHG Seminar in Beijing 2007 Hospital visits.

Thursday and Friday were planned for some hospital visits.

We visited the First Hospital of the Beijing University and the Beijing Friendship Hospital on Thursday and the Teda Hospital in Tianjin on Friday.



The First Hospital of the Beijing University.
Second Inpatient Department

The Second Inpatient Department of the First Hospital of the Beijing University has 531 beds. Mostly 2-bed rooms and 10% 1-bed rooms. The 1 and 2-bed rooms have the same size. Normal room costs are 400 RMB (€ 40) per day. Larger rooms at the corner cost 800 RMB.



The Beijing Friendship Hospital, with rickshaw's for the patients

In the Beijing Friendship Hospital patients could see on a large electronic sign which doctors were available at which time. On another large electronic sign the costs of the medicines were mentioned. All patients had their own chips with all relevant patient data.



The Teda International Cardiovascular Hospital (TICH) in Tianjin.

The Teda Hospital has 600 beds on 6 levels of expense. From the simple 2-bed rooms for \$ 6.60 till the big suites of \$ 3,000 per night. The suites occupy half a floor of the building and offers satellite TV, an indoor garden, a conference room, 2 bedrooms, a massage chair and a private gym. 8% of the beds are the expensive ones on the 11th and 12th floor. There are 45 2-bed rooms per floor and one floor for children. TICH is a publicly owned nonprofit hospital. It functions as a clinical teaching and research centre. Besides the 600 beds it has 16 OR.'s, 80 ICU beds, 5 catheter rooms and 40 CCU beds. The construction area of the main building is 76.000 m², the investment costs 720 mln. RMB. As the director of the hospital said: "It is just like an airplane. In the front of the plane is the first class, in the middle business class and at the end the economy class. But they are all going to the same destination. A part of the operation costs is subsidized by the government. The hospital expects to turn a profit within a few years. It started in 2004 with 66 mln. RMB income and 190 mln. RMB in 2006.



Example of the simple 2-bed rooms.

In the meantime we also visited the construction site of the Olympic Games, where we saw the new stadium, the "Birdsnest".



We thank dr. Huang Xiqu and his staff for all the work they have done to make this Seminar a big success, and all the speakers for their contributions and the effort to prepare their papers.

Report on the Healthcare Facility Planning Event in Malaysia

By Ar. Norwina Mohd Nawawi

4th July 2007, Beijing, China for UIA-PHG Newsletter.

MULTI-DISCIPLINARY TRAINING ON PLANNING, DESIGN, MONITORING, COMMISSIONING AND MAINTENANCE OF HOSPITAL PROJECTS

The training is part of the country's effort to equip multi disciplinary staff of the two agencies, Ministry of Health and Public Works Department Malaysia, with necessary skills to execute the government programme for facility development. The training is in preparation for the 5 year development plan for the country. The current plan from 2006-2010 is the 9th Malaysian Plan.

The first Hospital Planning and Design Workshop was sponsored jointly with WHO in 1983 and held in Kuala Lumpur, Malaysia. The participants were the medical personnel of the Ministry of Health, the State Health Directors, the Hospital Directors, head of units (Doctors, Pharmacist, Nurses, Medical Assistants and Hospital Engineers) in selected hospitals of the MoH and the architects and engineers in the Medical and Health Works Branch, of the PWD Malaysia. The main speakers were MARU staff represented by Anne Noble and Roger Dixon.

The 2nd similar workshop was sponsored by the Asian Development Bank Loan also held in Kuala Lumpur, Malaysia in 1993. Among others, the speakers were from Australia i.e. Ian Forbes, Peter Kesteven and Geoffrey Enwistle.

Subsequent workshops (1994-1998) were organized every year in-house from three (3) days to one (1) week at regional centres of the country.

There were no workshops held since then until recently. In preparation for the 9th Malaysian Plan, several workshops were planned.

Under the transfer of technology programme from Sg.Buloh and Temerloh Hospital projects, the Ministry of Health Malaysia (MoH) and the Public Works Department Malaysia (PWD) had requested the International Islamic University Malaysia to organize and convene the event from 13-16th November 2006. The conference and workshop was held at the Concorde Hotel, Shah Alam, Selangor for over 80 participants from both agencies. International guest speakers were Ian Forbes (Australia) and Prosperidad Luis (Philippines). Dr. Ruzica Bozovic Stamenovic from the National University of Singapore was invited but was not able to attend due to the university programme.

The theme of the conference and workshop for 2006 was ***“Enhancing Healthcare Facility Delivery Process towards Achieving the Health Goals of Vision 2020”***.

The conference was divided into sessions as follows:

- Healthcare facility planning process & project briefs formulation
- Special hospital design reviews
- Planning and design development process: translating briefs to design

- Project management: current trend and issues
- Project management: innovation & strategies

- Evaluation, feedback & maintenance
- Information communication technology in hospitals

The first three days were filled with lectures. The workshop on formulation of briefs was held at night. Each group was made up of multidisciplinary professionals. They were given different departments to work on. The final day ended with the group presentation of the brief. The group was also brought for a hospital visit to 600 bed Sg. Buloh Hospital, Selangor. My role was the organizer for the university and speaker at three sessions.



The Conference at the Concorde Hotel, Alam, Selangor



Prosperidad Luis at the Emergency Department Shah of Sg. Buloh Hospital.

There was a recent similar workshop for 2007 sponsored by the Islamic Development Bank (IDB) for the same purpose. The in-house workshop was held from 21st to 25th May 2007 at Royal Adephe Hotel, Seremban, Negeri Sembilan with over 60 participants from the two agencies. The hospital visited was the 500 beds Serdang Hospital. I was invited as a speaker in one of the lectures.
