

# HOSPITAL ARCHITECTURE

Master Class Evidence-Based Design for Critical Care

Berlage Institute, Rotterdam **7-11 January 2008**

**berlage** institute  
postgraduate laboratory of architecture

**Masters:** Prof. D. Kirk Hamilton FAIA, FACHA, Associate Professor of Architecture, Interim Director, Center for Health Systems & Design, Texas A&M University (EBD expert). Co-master and 'architectural challenger': Ir. Jaap Wiedenhoff, Director ARUP Amsterdam.

**Experts:** Board and Medical Staff Erasmus MC Rotterdam: Prof. Dr. Jan Bakker (internist-intensivist and Chief of Staff Intensive Care), Drs. Liesbeth van Heel (Directorate of Corporate Real Estate), Dr. Geert Kazemier (Surgeon and Chief of Staff Operating Rooms), Dr. Margreet Vos (Microbiologist) and Mr. Anton Westerlaken (Member of the Board); Board and Medical Staff UMC Groningen: Drs. Frans Jaspers (Member of the Board), Drs. Leo de Jong, (Head Nurse Thorax-Surgical Intensive Care), Dr. Jaap Tulleken (Internist and Instructor IC Medical Science), and Dr. Jan Zijlstra (Internist-intensivist), as well as Prof. Bas Molenaar and Dr. Cor Wagenaar.

**Case study:** Based on the expertise of two major teaching hospitals in the Netherlands, the Erasmus University Medical Center (Erasmus MC) in Rotterdam and the University Medical Center Groningen, this master class will perform a design charrette on the subject of an innovative intensive care unit.

**Brief:** The evidence-based model requires the designer to review the best available relevant evidence from credible research. The goal is to create an unbroken chain of logic from research to design concepts, and on to a hypothesis or prediction of an outcome that will result from implementation of the design concept. Measurement will confirm whether a hypothesis has been supported. The art and science of building design has always had a foundation in evidence from engineering and mathematics. What is new is the requirement to seek evidence from unfamiliar domains of knowledge, as in the case of medicine, nursing, and the social sciences.

Master class participants will be given advance assignments to explore the available research in one of several areas: design's relationship to infection, error, fatigue, stress, and communication. Others will research technology and equipment for critical care. Participants will share their findings with each other, building a body of relevant research available to the class. The implications of the research upon design will be explored through critical interpretation of the findings.

Design participants will then develop design concepts for an innovative ICU and hypotheses for outcomes they expect to result from implementation of the concepts. The group will develop a consensus design for the unit. Finally, the group will describe measurements appropriate to confirming whether their hypotheses can be supported if the unit were actually constructed.

**Target group:** architects specialized (specializing) in hospital architecture from the Netherlands and Europe, using the EBD-method. To guarantee an optimal interaction and debate, the number of participants will be limited to a maximum of 10-15.

**Organizing partners:** Berlage Institute – Centre for Architectural Research and Development, Platform Architecture in Health.

**Aim:** To understand, discuss and develop the EBD-method, designing an innovative concept for an IC unit.

**Format:** The master class will include a combination of lecture and studio formats during five days of intensive training, including tutorials, individual and group wise research and design, fieldtrip(s) and expert lectures. The master class will involve international faculty, physician specialists, architects, and design students. An expert jury will review the final results. Participants receive a Certificate of Participation. The results may be published.

**Participation fee:** Participants pay € 3.600,= (ex VAT), including all studio workshops, lectures, fieldtrip(s), readers and documentation, lunches, drinks and final reception. The participation fee does not include travel and accommodation. Accommodation will be offered in a three or four star hotel (approx. € 125,= per night).

**Registration and information:** To apply to this master class, please use the attached registration form or see [www.berlage-institute.nl](http://www.berlage-institute.nl). If you have any questions about the event, please contact Françoise Vos at the Berlage Institute, +31.10.4030398 or [vos@berlage-institute.nl](mailto:vos@berlage-institute.nl).

This master class is subject to cancellation in the event the number and/or level of participants does not guarantee the highest standard.

# Registration Form

## Hospital Architecture

*Master Class Evidence-Based Design for Critical Care at the Berlage Institute, Rotterdam*  
7-11 January 2008

### Personal data

Initials and Surname ..... M/F

Name .....

Address .....

Postcode and City .....

Country .....

Telephone .....

Fax .....

E-mail .....

### Company data

Name company.....

Department .....

Address .....

Postcode and City.....

Country .....

Telephone.....

Fax .....

E-mail .....

The invoice for the master class will be sent to the company, attn. the participant. In case the invoice should go to a different address and/or contact person, please let us know.

Please send your registration form to:  
Berlage Institute, attn. Françoise Vos, Botersloot 25, 3011 HE Rotterdam, the Netherlands.  
Or by fax to +31.10.4030390.

