

## **CV: Monica Hillevi Peterson Billger**

Professor in Architecture and Visualization, Dept of Architecture; Chalmers University of Technology, Göteborg, Sweden . Research Profile leader, Visualization & Modelling Lab, Chalmers Architecture. Employed full time with time for research up to 100.

Chalmers representative at Visual Arena Lindholmen and responsible for establishing a new visualization center.

### **Education and degrees**

Associate Professor (docent) June 2007

PhD, Dept of Theoretical and Applied Aesthetics, School of Architecture, Chalmers Aug 1999

Techn. Lic, Dept of Theoretical and Applied Aesthetics, School of Architecture, Chalmers June 1996

Master of fine arts, Interior Architecture, School of Design and Crafts, Göteborg 1990

### **Professional experience (in reversed chronological order)**

Research Profile leader, Visualization & Modelling Lab, Chalmers Architecture, 2012

Professor in Architecture and Visualization (Biträdande Professor) 2010 -

Vice head of Department and Director of Graduate Studies (from 20060901 -20081231)

Academic leader, Center of Visualization Göteborg, 2007-2012

Associate professor position 20070701-

Assistant professor position (forskarassistent), Arkitektur, Chalmers 2005-

Team manager, Dept Design and Media, Chalmers 2002-2004

Post-Doc dept of Design and Media, School of Architecture, Chalmers 1999-2002

Development of the exhibition Se Färgen at the science centre Universeum, Göteborg 2000-2001

Interior Architect, Studio 31 Inredningsarkitekter AB, Göteborg 1991

### **Projects granted as project leader**

GO:SMART- Traveler centered innovation for sustainable passenger transport in urban environments, Subproject manager for The virtual traveler in this 18 miljon SEK Vinnovafunded project lead by Closer, Lindholmen Science Park. ,Part A 2011-2012, Part B 2012-2014

SENDSMART. Subproject manager for Visualization in this 18 miljon SEK Vinnova-fiunded project lead by Closer, Lindholmen Science Park., Part A 2011-2012, Part B 2012-2014

Project manager (academia), Center of Visualization, 2007-, 3+2 years financed by 5 foundations together with Chalmers Stiftelse and Business Region Göteborg.

Project manager for the project Urban Games at Mistra Urban Futures,..2010-2012

Project leader, FORMAS information project “The virtual colour laboratory”, 2005 -2008

Project leader for the research project “To Simulate Colour Appearance In Virtual Environments: a comparison of the appearance of light and colour between real rooms and virtual reality simulations.” Co-funded by FORMAS and Vetenskapsrådet. 2001-01-01- 2004-09-15

Swedish research leader for the intern. project Colour Emotion, 2002. In collaboration with universities in Japan, Korea, Hong Kong , Taiwan, Thailand, Australia, Great Britain, Italy and Spain.

Project leader for “The Colour and the Room”, jointly financed by the Swedish Building Research Council, the Swedish Ass. of Painting Constructors and the Swedish Painters Union 1996-1999

### **Project participant in other research projects**

SRE Architecture in the Making. Participated in the application and are participating researcher in the program Investigative modelling, Research platform funded by the Swedish Research council FORMAS, 2011 -

“The Limitations of the human eye”, funded by KK-foundation 2009-2012

“SYN-TES”, funded by KK-foundation 2009-2011

“NanoFormgiving through haptic, aesthetic laborations” funded by Swedish Research Council, Project Manager Prof. Cheryl Akner Koler, Royal College of Art, 2009-2012

Partner in an international project on visual appearance and emotional response to materials, funded by a Japanese Foundation, Proj. manager Prof. Tetsuya Sato, KIT, Japan, 2009-2012

“Cross-disciplinary studies of Complexity and Transformation”, funded by the Swedish Research Council, Proj. Manager Prof. Cheryl Akner Koler, Royal College of Art, 2003-2005

### **Pedagogical experience**

Nordforsk co-applicant and lecturer at PhD-Course in Trondheim, april 2012

Examiner for different courses, lectures, seminars and exercises for Chalmers Architecture, 1994-

External lectures, courses and workshops at other Universities

External Examiner, Curtin University of Technology, Perth, Australia, Masters level 2003

Opponent for diploma work (masters level) at Konsthögskolan, KHIB, Bergen, Norway 2001

### **Supervision of postgraduate students**

2 licentiate graduated: Lena Hopsch, Dec 2002, and Beata Stahre June 2006

7 PhD graduated:

Supervisor for Annika Kronqvist, Ljushögskolan, Jönköping University, 2010-2012

Supervisor for Phd-student Ulrika Wänström Lindh, HDK, 2007-2012

Supervisor for Beata Stahre, Chalmers Architecture, Feb 2009

Supervisor for Cheryl Akner Koler, Chalmers/National College of Art, Sep 2007

Co-advisor for Lena Hopsch, Chalmers, oct 2008

Co-advisor for Maud Hårleman, KTH, Juni 2007

Co-advisor for Pierre Olsen in the final stage of his dissertation, Mars 2006

1 PhD's in progress:

Supervisor for Stig Anton Nielsen, Chalmers Architecture, 2012-

### **Acting as opponent or committee member in doctoral disputation/licentiate examination**

Exam Committee, Doctoral exam, Eva Eriksson, Dept of Applied IT, Chalmers, 2013

Exam Committee, Doctoral exam, Mattias Roupé, Dept of Civil and Environ. Eng., Chalmers, 2013

Exam Committee, Doctoral exam, Maryam Darrodi, Doctoral viva, School of Design, Univ. of Leeds, UK, 2013

Exam Committee, Doctoral exam, Karin Forslund, Dept of Product development, Chalmers, 2011

Exam Committee, Doctoral exam, Bo Mao, Dept of Urban Planning and Environment, KTH, 2011

Exam Committee, Doctoral exam, Hanna Landin, Computer Science and Eng., Chalmers, 2009  
Exam. Committee, Doctoral exam, Jonas Unger, Computer Graphics, Linköping University, Jan 2009  
Exam. Committee, Doctoral exam, Environmental inorganic chemistry, Pär Mejling, Chalmers, 2009  
External examiner at Wen-Yuan Lee Doctoral viva, Colour Science, Univ. of Leeds, UK, May 2007  
Member of the examining committee at Marie Elf's Doctoral exam, Architecture, Chalmers, Jan 2007  
Opponent at Kaja Tooming's Lic. exam, Design, HDK, Gothenburg University, May 2005

### **Membership in editorial boards, scientific committees, foundations ...**

- NKU University of Borås 2011-
- CEEBEL (Center for energy efficient lighting) Board member 2012-
- CEEBEL (Center for energy efficient lighting) Member of reference group 2011-2012
- Chair for CIE Division , Technical Committee 1-78 2010-
- Scientific committees at conferences: SigraD 2010, AIC South Africa 2006, AIC stockholm
- Board member, Universeum AB 2008-
- Committee member Adlerbertska Stipendiestiftelsen 2008-
- Committee member Jan-Erik Sundgrens utmärkelse 2009-
- Board member Center of Visualization, 2007-
- Associate Editor and reviewer , Colour Research and Application (journal) 2005-
- Member of Ethical Committee (Verksamhetsetiska kommittén), Chalmers 2004-2008
- Member of the board, the Swedish Colour Body in AIC 2000--2008
- Member of CIE Division I in Sweden, 1998—
- Workshop leader, Journal of Nordic Architectural Research symposium Ulltuna 2002
- Theme Editor for the Nordic Journal of Architectural Research, 2001;2, theme issue "Colour"
- Delegate on international meeting of CIE Division 1, Baltimore, USA, 1998

### **Experience of communicating results with stakeholders/end-users**

MB has extensive experience of communicating research. To communicate research results and connect researchers with stakeholders has been a key driving force during the 5 years as academic leader of Center of Visualization. Projects generated during this period as the two visualization sub projects in GoSmart and SendSmart are example of working closely together between researchers and stakeholder/end-users. Another example is "Limitations of the Human Eyes", which especially aimed at visualizing research results on impaired vision to the planners and facility managers. The result is software which shows how an environment is perceived with cataract. MB has also given several popular lectures every year.