

# **Classroom of the future**

## **Advanced Study Group at the Pufendorf Institute**

How is new technology to be used in the classroom in order to optimise performance and learning? Research on this topic has been carried out in separate disciplines, but knowledge and results do not circulate easily between groups. More theoretical and methodological exchange about the use of new technology for educational purposes, is needed.

The objective of the advanced study group is to gather scholars from different disciplines, organizing a seminar series where they will present their research on the use of new technology from perspectives ranging from psychological, educational, sociological to technological perspectives, including perspectives of cognitive science and library and information science. Another goal is to invite international scholars and to organize a workshop on research and visions concerning the classroom of the future.

Several challenges which lie in the use of technology for students working with complex educational materials, will be discussed. How can we support both high and low ability pupils? What information seeking practices do pupils apply in learning environments and how can we support them? How can we adapt pedagogical tools such as modeling examples and visualizations to enhance metacognition, motivation and learning? Can we teach cognitive strategies to promote multimedia learning? Is it possible to develop attentive interfaces able to detect reading and comprehension difficulties, and moderate system response based on pupil's current individual focus? How can new technology (for instance eye tracking) help to assess pupils and students on-line and directly support teachers in their diagnostics and instruction? What consequences does this have for role of the teachers?

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# Workshop

## November 8–9, 2012

### The use of visualizations and technology in the Digital Classroom

Workshop organizer: **Jana Holsanova**

Advanced study group "The Classroom of the Future"

Co-organizers: **Alexander Strukelj & Kenneth Holmqvist**

Venue: Pufendorf IAS, Lund University & Humanities Lab, Centre for Languages and Literature, Lund University, November 8th (Thursday): Pufendorf institute

12.00-12:15	Welcome: <b>Jana Holsanova</b>
12:15-13.00	<i>Lunch for the Advanced study group and international guests</i>
13.15-14.00	Keynote 1. <b>Katarina Scheiter</b> : How to enable effective learning with multimedia in the classroom - a learner-centered approach
14.00-15.00	Panel discussion
15.00-15.15	<i>Coffee</i>
15.15-15.30	Walking over to the Humanities lab
15.30-16.30	Guided tour in the Humanities lab
16.30-17.00	Inauguration of the Digital Classroom

Introduction: Associate Professor **Jana Holsanova**, Co-ordinator for the Advanced study group "Classroom of the future"

Inauguration talk: Professor **Eva Wiberg**, Pro Vice-Chancellor, Lund University.

PI for the MAW project, Associate Professor **Kenneth Holmqvist**, Head of Eye-Tracking group introduces the new research project

**Eva Wiberg** and **Kenneth Holmqvist** cut the red ribbon

Final words and toast: Professor **Marianne Gullberg**, Director Lund University Humanities Lab

Refreshments for the advanced study group, international participants, the staff from Humanities Lab and invited guests.

18.00-	<i>Dinner for the Advanced study group and international guests</i>
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November 9 (Friday): Pufendorf institute

9.00-9.30	<i>Coffee</i>
9.30-10.15	Keynote 2. <b>Tamara van Gog</b> : Eye tracking as a tool to study and enhance multimedia learning
10.15-11.00	Panel discussion
11.00-12.00	Brainstorm. <b>Alexander Eitel</b> : Possibilities and challenges in the use of eye tracking in the classroom of tomorrow
12.00-13.00	<i>Lunch for the Advanced study group and international guests</i>
13.00-13.15	Walking over to the Humanities lab
13.15-15.00	Humanities lab, testing in the digital classroom
15.00-16.00	<i>Coffee</i> and final discussion at the Pufendorf institute

# The Digital Classroom

## Välkommen till invigningen av det digitala klassrummet - ett fullskalelabb på Humanistlaboratoriet

Den 8:e november invigs det Digitala klassrummet i Humanistlaboratoriet vid Lunds universitet. Professor Eva Wiberg, prorektor och ställföreträdande rektor med särskilt ansvar för utbildningsfrågor, kommer att hålla invigningstalet.

### Programme:

Tid: 16.30-17.00 Plats: Humanistlaboratoriet på SOL

Inauguration of the Digital Classroom

- Welcome and introduction: Associate Professor Jana Holsanova, Co-ordinator for the Advanced study group "Classroom of the future"
- Inauguration talk: Professor Eva Wiberg, Pro Vice-Chancellor, Lund University.
- Introduction to the new MAW project: PI, Associate Professor Kenneth Holmqvist, Head of Eye-Tracking group
- Eva Wiberg and Kenneth Holmqvist cut the red ribbon.
- Final words and toast: Professor Marianne Gullberg, Director Lund University Humanities Lab

Refreshments for the advanced study group, international participants, the staff from Humanities Lab and invited guests.

Läs mer om det digitala klassrummet:

<http://www.lu.se/article/digitala-klassrummet-ett-fullskalelabb-i-varldsklass>

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