Ambience’11 program

NOVEMBER 27

17.00 – 21.00  Come together and Welcome Party
Opening of the Ambience’11 exhibition
at the Museum of Textile History
[The Museum of Textile History]

NOVEMBER 28

Exhibition open from 12.00

9.00 – 11.00  Welcome and Key Notes
Chair: Heikki Mattila

WELCOME – Björn Brorström,
Rector at the University of Borås

KEY NOTE I – The Power of Things
Alex Adriaansens
Director, V2 Labs, Rotterdam ccc

KEY NOTE II – What’s New About Material Thinking?
Nancy de Freitas
Editor-in-Chief, Studies in Material Thinking
Associate Professor, Auckland University of Technology

REFRESHMENTS

11.30 – 13.00  Session I
DIGITAL ARCHITECTURE
Chair: Mette Ramsgaard Thomsen – Material Simulation

Articulated Behaviour - Computational Methods for the Generation and Materialization of Complex Force-active Textile Morphologies
Sean Ahlquist, Stuttgart University, Germany
Achim Menges, Stuttgart University, Germany

Formation and Polyvalence: the Self-organisation of Architectural Matter
Robert Stuart-Smith, Kokkugia LLP / AA School AADRL, United Kingdom

Textile Qualities: Parametric Design, Simulation and Fabrication Based on New Composite Materials
Markus Brueck, Rieder Faserbeton-Elemente GmbH, Germany
Georg Grasser, University of Innsbruck, Austria

INTERACTION DESIGN
Chair: Lars Hallnäs – Care and Textiles

I Mirabilia: Taking Care of the Emotional Life of Hospitalized Children
Erika Rossi, University of Venice, Italy
Gillian Crampton Smith, University of Venice, Italy
Phillip Tabor, University of Venice, Italy
Designing Smart Textiles for Music and Health
Birgitta Cappelen, Oslo School of Architecture and Design, Norway
Anders-Petter Andersson, Kristianstad University, Sweden

Aura: Wearable Devices for Non-verbal Communication between Expectant Parents
Marco Righetto, University of Venice, Italy
Gillian Crampton Smith, University of Venice, Italy
Philip Tabor, University of Venice, Italy

LUNCH

14.30 – 16.00  
Session II

SMART TEXTILES
Chair: Marion Ellwanger – Textile Sensors and Knitting

Smart Textiles - Safety for Workers in Cold Climate
Trine M. Seeberg, SINTEF, Norway
Magnus Hjelstuen, SINTEF, Norway
Hilde Færevik, SINTEF, Norway
Hanne O. Austad, SINTEF, Norway
Andreas Larsson, SINTEF, Norway
Maria S. Tjønnås, SINTEF, Norway
Tore Christian B. Storholmen, SINTEF, Norway

Functional Warp Knitted Fabrics with Integrated Superelastic NiTi Filaments
Katerina Janouchova, Technical University of Liberec, Czech Republic
Monika Vysanska, Technical University of Liberec, Czech Republic
Tatiana Trukhanova, Technical University of Liberec, Czech Republic
Ludek Heller, The Academy of Sciences of the Czech Republic, Czech Republic

Knitted Wearable Stretch Sensor for Breathing Monitoring Application
Li Guo, University of Borås, Sweden
Joel Peterson, University of Borås, Sweden
Waqas Qureshi, University of Borås, Sweden
Adib Kalantar Mehrjerdi, University of Borås, Sweden
Mikael Skrifvars, University of Borås, Sweden
Lena Berglin, University of Borås, Sweden

Tensed Up - a Piece of Material Demonstrates Our Field of Activity
Clemens Winkler, University Kassel, Germany

NEW MEDIA ART / INTERACTION DESIGN
Chair: Johan Öberg – Culture, Interventions and Storytelling

Aesthetic Replacement Strategies in Hospitals
Gunnar Sandin, Lund University, Sweden
Lars-Henrik Ståhl, Lund University, Sweden

Working Patches
Kristina Lindström, Malmö University, Sweden
Asa Ståhl, Malmö University, Sweden

When Design Meets Art and Turkish Culture. Lessons Learned from Making.
Johanna Kint, Technical University of Eindhoven, Netherlands
Oscar Tomico, Technical University of Eindhoven, Netherlands

REFRESHMENTS
16.30 – 18.00  
**Session III**

**SMART TEXTILES**

Chair: Sabine Seymour – Color Changes

Applied Research Project OPTIMUM - Generation and Design of Micro Structured Textiles with Spectral Colour Effects
Isabel Rosa Mueggl, Hochschule Luzern Design & Kunst, Switzerland
Andrea Weber Marin, Hochschule Luzern Design & Kunst, Switzerland
Tina Moor, Hochschule Luzern Design & Kunst, Switzerland

A New Type of Color Change in Smart Textiles
Ludivine Meunier, Gemtex, France
Vladan Koncar, Gemtex, France
Cédric Cochrane, Gemtex, France

Virtual Colour: Additive Colour Mixing on Textiles with Liquid Crystal Dye Systems
Sara Robertson, Heriot-Watt University, United Kingdom
Sarah Taylor, Heriot-Watt University, United Kingdom
Robert Christie, Heriot-Watt University, United Kingdom
Waseem Ibrahim, Heriot-Watt University, United Kingdom

**SMART TEXTILES / INTERACTION DESIGN / NEW MEDIA ART**

Chair: Sarah Kettley – Interactive Artefacts, Complexity

Understanding the Complexity of Designing Dynamic Textile Patterns
Linnéa Nilsson, University of Borås, Sweden
Mika Satomi, University of Borås, Sweden
Anna Vallgårda, University of Borås, Sweden
Linda Worbin, University of Borås, Sweden

Interaction-related Properties of Interactive Artifacts
Sus Lundgren, Chalmers University of Technology, Sweden
Abadyl of Tunes
Michael Johansson, Kristianstad University, Sweden
Jim Hall, Happylander Ltd, Sweden
Johan Salo, Do-Fi, Sweden

Interactive Digital Art
Bill Spinhoven van Oosten, DNArt, Netherlands
Berend Jan van der Zwaag, The University of Twente, Netherlands
Nirvana Meratnia, The University of Twente, Netherlands

19.00 - 22.00

**Buffet Dinner** at the Museum of Textile History

**Electronica Concert**
Alvin Lucier – I am sitting in a room
Syntjuntan – Textile Synthesizer Concert

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**NOVEMBER 29**

Exhibition open from 12.00

9.00 – 10.00  
**Key Note**

Chair: Mette Ramsgaard Thomsen

KEY NOTE III – Between Architecture and Science: Material Analogs
Jenny E. Sabin
Department of Architecture, Cornell University

**REFRESHMENTS**
10.30 – 12.00  Session IV

DIGITAL ARCHITECTURE [Mercurius]
Chair: Jenny E. Sabin – Material Design

Embedding Designed Deformation: Towards the Computational Design of Graded Material Components
Paul Nicholas, *The Royal Danish Academy of Fine Arts, Denmark*

Material Design and Analysis for 3D-Printed Fiber-reinforced Cement Polymer Building Components
Ronald Rael, *University of California Berkely, United States*
Virginia San Fratello, *San Jose State University, United States*

Listener: a Probe into Information Based Material Specification
Mette Ramsgaard Thomsen, *The Royal Danish Academy of Fine Arts, Denmark*
Ayelet Karmon, *Shenkar College of Engineering and Design, Israel*

13.30 – 15.00  Session V

SMART TEXTILES [Mercurius]
Chair: Carole Collet – Textiles and Architecture

Next Generation Materials
Manuel Kretzer, *ETH Zürich, Switzerland*

Knitting Moves: Bio-inspired Transformable Textiles for Knitted Architecture
Jane Scott, *Central St Martins College of Art and Design, United Kingdom*

Visual Bio-composites – Establishing New Conditions for an Old Material
Karen Marie Hasling, *Designskolen Kolding, Denmark*

15.30 – 17.30  Session VI

SMART TEXTILES / INTERACTION DESIGN [Mercurius]
Chair: Oscar Tomico – Materiality and Craft

BioLace - an Exploration of the Potential of Synthetic Biology for Future Textiles
Carole Collet, *Central St Martins College, United Kingdom*

NeoCraft: Exploring Smart Textiles in the Light of Traditional Textile Crafts
Mili John Tharakan, *Smart Textiles Design Lab, Sweden*

Reflections on a Craft Design Protocol
Sarah Kettley, *Nottingham Trent University, United Kingdom*

INTERACTION DESIGN / NEW MEDIA ART [Jupiter]
Chair: Gunnar Sandin – Body and Space

Amplification of Energy
Sabine Seymour, *Parsons The New School for Design, United States*
Lucas Vickers, *Parsons The New School for Design, United States*
Behnaz Babazedeh, *Parsons The New School for Design, United States*
**Spatial Explorations in Interaction Design**  
Eva Eriksson, *Chalmers University of Technology, Sweden*

**Articulating Atmospheres through Middle Ground Experiences in Interaction Design**  
Sofie Kinch, *Aarhus School of Architecture, Denmark*

**Augmented Bodies - Experiments in Body-centered Design**  
Johan Sandsjö, *Chalmers University of Technology, Sweden*

19.00 – 21.30  
**Conference dinner at the City Hall**  
Hosted by the City of Borås  

*Performance* - Directed by Ulrik Martin Larsen

22.00 –  
**Party at The Swedish School of Textiles**  

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**NOVEMBER 30**

**Exhibition open 12.00 – 18.00**

9.00 – 10.30  
**Panel discussion**  
*Technology, Material Thinking, Craft – revisiting Modernism?*  

Moderator: Johan Öberg  
Faculty of Fine, Applied and Performing Arts  
University of Gothenburg

Participants:  
Jenny Sabin  
Mette Ramsgaard Thomsen  
Alex Adraansens  
Lars Midbøe  
Nancy de Freitas  
Clemens Thornquist

**REFRESHMENTS**

11.00 – 13.00  
**Session VII**  

**DIGITAL ARCHITECTURE**  
Chair: Paul Nicholas – Active Materials and Calculating Geometry

**Design Process for Interactive Architecture at the @Lab**  
Sarah Bonnemaison, *Dalhousie University, Canada*  
Shane Yates, *Dalhousie University, Canada*

**Towards Interconnectivity: Appropriation of Responsive Minimum Energy Structures in an Architectural Context**  
Aurélie Mossé, *The Royal Danish Academy of Fine Arts, Denmark*  
David Gauthier, *Copenhagen Institute for Interaction Design, Denmark*  
Guggi Kofod, *University of Potsdam, Germany*

**Variable-modulus and Active Material Systems**  
Christina Doumpioti, *Royal College of Art, United Kingdom*

**Textiles: Alternative Forms of Malleability**  
Rhett Russo, *New Jersey Institute of Technology, United States*  
Katrin Mueller-Russo, *Pratt Institute, United States*
SMART TEXTILES / NEW MEDIA ART
Chair: Sara Robertson – Movement and Performativity

An Interactive Textile Hanging: Textile, Spaces and Interaction
Delia Dumitrescu, University of Borås, Sweden
Hanna Landin, University of Borås, Sweden
Anna Vallgårda, University of Borås, Sweden

Wearable Technologies: From Performativity to Materiality
Valérie Lamontagne, Concordia University, Canada

Alternative Representation of Fashion to the Catwalk and Photographic Imaging
Malcolm McInnes, University of Brighton, United Kingdom

LUNCH

14.30 – 16.00  Session VIII

EXHIBITION SESSION
Chair: Clemens Thornquist