

BANFF NEW MEDIA INSTITUTE

2005

## Bodies in Motion: Memory, Personalization, Mobility and Design

June 25<sup>th</sup> – June 28<sup>th</sup>, 2005

This event is made possible through the support of:



Canadian  
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New Media Research Networks



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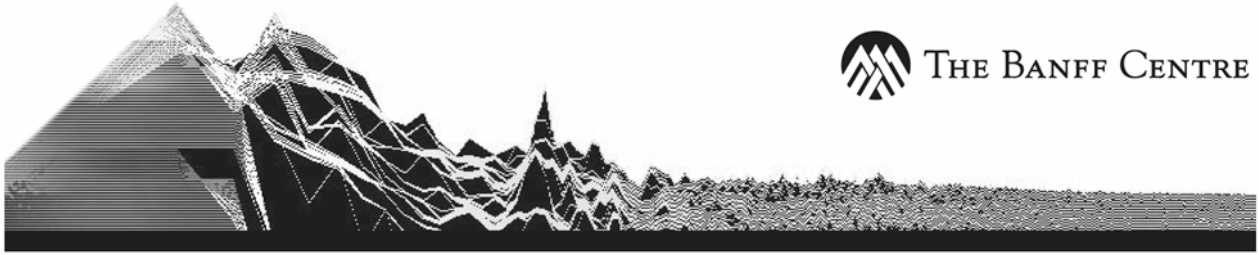
Telefilm Canada

Canada

Arts Training programs at The Banff Centre are supported by the Department of Canadian Heritage and Human Resources Development Canada through the National Arts Training Contribution Program.

Watch and listen live at [www.banffcentre.ca/bnmi](http://www.banffcentre.ca/bnmi)

Agenda - Bodies in Motion: Memory,  
Personalization, Mobility and Design



## BANFF NEW MEDIA INSTITUTE

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### THEME

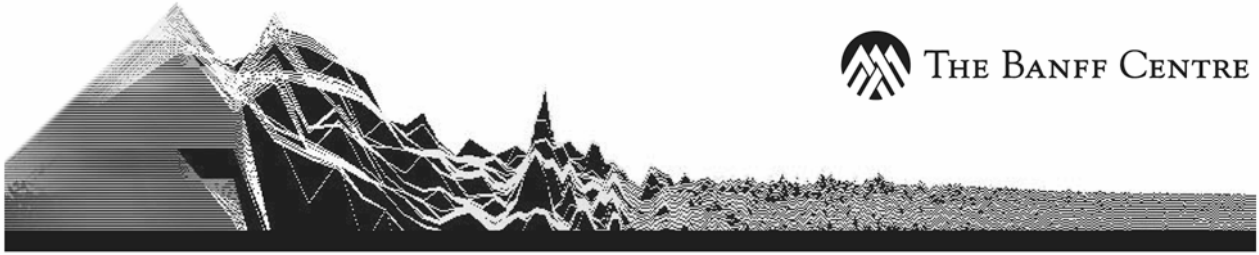
Ubiquitous computing and advanced memory capacity provide new possibilities for mobile and rich media that draw on embedded applications. These technologies provide challenging new production models and partnerships. This summit explores the creative, technical and business potentials of physical interfaces such as wearable computing, sensor based memory devices, location based rich experiences that rely on ubiquitous computing and mobility. Applications span fashion, personalized media systems, location based games, training applications, security systems, wellness and recreational technologies.

Memory is now embedded in sensors, textiles, garments, buildings, and the air we breathe. The miniaturization and reduction in cost of digital memory and the proliferation of personal recording devices as well as surveillance technologies provides individuals and societies with a vast realm of memory materials. How can we deploy these capacities?

What are the design and creative capacities of memory rich materials and forms? One of the proclaimed goals of pervasive computing research is to develop invisible distributed sensor networks to record various aspects our activities. Wearable computing research is similarly concerned with questions of memory, in particular contextually-specific memory. The summit will also examine the idea of alternate display substrates (such walls, garments, or furniture) that recall their "history of use", or how embodied memory can be communicated through augmented data.

What drives the contemporary desire in the technology world for total data memory? How does data memory sit beside new kinds of memory capacities in other materials? Memory is closely linked to histories and the interpretations of history. Some of the best mobile experiences combine local memory, histories and place. What models of memory and mind is used in designing technologies that remember? What are the ethical implications of memory machines? What does this mean in time of war, increased security? How do we include the need, capacity and desire to forget, how do we include trauma?

Agenda - Bodies in Motion: Memory, Personalization, Mobility and Design



## BANFF NEW MEDIA INSTITUTE

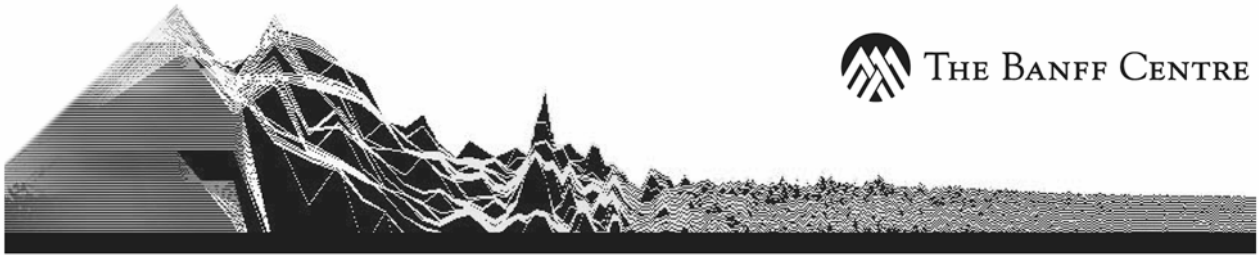
2005

### Agenda - Bodies in Motion: Memory, Personalization, Mobility and Design

This summit will engage nanotechnology researchers, medical researchers, historians, as well as material designers, fashion and art, and look to psychology, cognitive science, spirituality, kinesiology, machine learning, and artificial intelligence.

This summit builds on ongoing summits and research in mobile media, wearable computing, responsive environments, emotional computing and nanotechnology at the Banff New Media Institute. It is co-created with the Am-I-Able Research Network, Department of Canadian Heritage New Media Research Network and specifically with Joanna Berzowska, Computation Arts, Concordia University and Am-I-Able co PI.

The summit will be video streamed live to universities and colleges in Canada and abroad as a learning resource as well as prototypes demonstrated through the ACCESS grid, desktop audio and video conferencing software. Event coverage will be archived for use by future researchers.



## BANFF NEW MEDIA INSTITUTE

### AGENDA

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Agenda - Bodies in Motion: Memory,  
Personalization, Mobility and Design

**Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, will moderate or co-moderate most sessions unless otherwise noted. Co-organized with **Joey Berzowska**, with the support of the Am-I-Able Network, Heritage Canada, and New Media Research Network.

### Friday, June 24<sup>th</sup>

**8:30pm – 11:00pm**

#### Meet and Greet

*Location: Professional Development Centre (PDC), Petro Canada room104*

Come have a drink. This is an opportunity to introduce yourself and the various collaboration networks as well as discuss the goals of the summit.

### Saturday, June 25<sup>th</sup>

**8:00am – 9:00am**

#### Technical Run Through

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**\*ALL PRESENTERS FOR THE DAY MUST ATTEND - see technical run through schedule for times.**

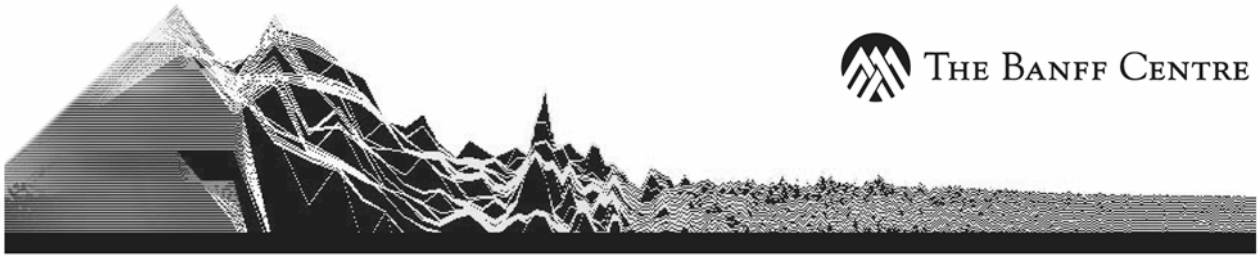
**9:00am – 9:45am**

#### Welcome and Goals

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

- **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, and faculty
- **Joey Berzowska**, Assistant Professor, Department of Design Art, Concordia University (Québec)
- **Ron Wakkary**, Associate Professor, Simon Fraser University, School of Interactive Arts and Technology (British Columbia)

(all three are the Principle Investigators for Am-I-Able Network)



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### Agenda - Bodies in Motion: Memory, Personalization, Mobility and Design

9:45am – 10:50am

#### Deeply Embedded Technologies:

**What are next generation memory technologies, the concepts behind these and their implications?**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Co-Moderated by:** **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, with **Tom Donaldson**, Lead Faculty, A.R.T. Mobile Research Laboratory, Banff New Media Institute, The Banff Centre

- **Mik Lamming**, Distinguished Scientist, Hewlett Packard Labs, Palo Alto (California); *Next generation memory systems*
- **David Wishart**, Professor, Depts. of Biological Science and Computing Science, University of Alberta, Senior Research Officer, National Institute of Nanotechnology (Alberta); *Between biological and digital memory*

10:50am – 11:05am

**BREAK**

11:05am – 1:15pm

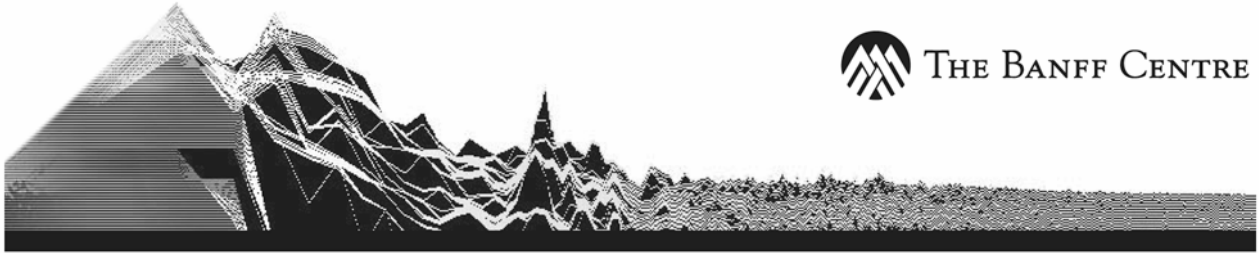
#### Mobile Devices, Personalization and Memory Capacity:

**What memories do we want our mobile to manage? How do we think about body, device and memory?**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Co-Moderated by:** **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, with **Ron Wakkary**, Associate Professor, Simon Fraser University, School of Interactive Arts and Technology (British Columbia)

- **Suzanne Stein**, Director, Insight & Foresight, Corporate Strategy, NOKIA Corporation (United Kingdom); *Social memory and future NOKIA products - devices meet content*
- **Mark Resch**, Independent (California); *Thoughts on emerging mobile applications and business models*
- **Heidi Tikka**, Media Artist and Researcher, UIAH Media Lab (Finland); *Affective technologies, the social and cultural situatedness of an affective experience and its technological mediations*
- **Alan Boykiw**, Design Head, Emily Carr Institute of Art and Design (British Columbia); *Mobility and the future of learning: what memories do we need to access?*
- **Martha Ladly**, Professor of Design, Ontario College of Art and Design (Ontario); *Virtual/mobile communities research at the Beale Centre for Strategic Learning at OCAD*



## BANFF NEW MEDIA INSTITUTE

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### Agenda - Bodies in Motion: Memory, Personalization, Mobility and Design

1:15pm – 2:15pm

**LUNCH**

\*\*\*please note: last service in the dining room is at 1:30pm\*\*\*

2:15pm – 3:30pm

**To Remember and Forget: Memory and Memorial**

**When do cultures need to remember, when to forget?**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Co-Moderated by: Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, with **Heidi Tikka**, Media Artist and Researcher, UIAH Media Lab (Finland)

- **Susan Kennard**, Acting Director/Executive Producer, Banff New Media Institute, The Banff Centre; *Understanding memory, monument and creativity in Sarajevo*
- **Ivan Grubanov**, Visual Artist, Belgrade (Serbia and Montenegro); *Art as the vehicle of whose memory - Self-portrait with Milosevic*

3:30pm – 3:45pm

**BREAK**

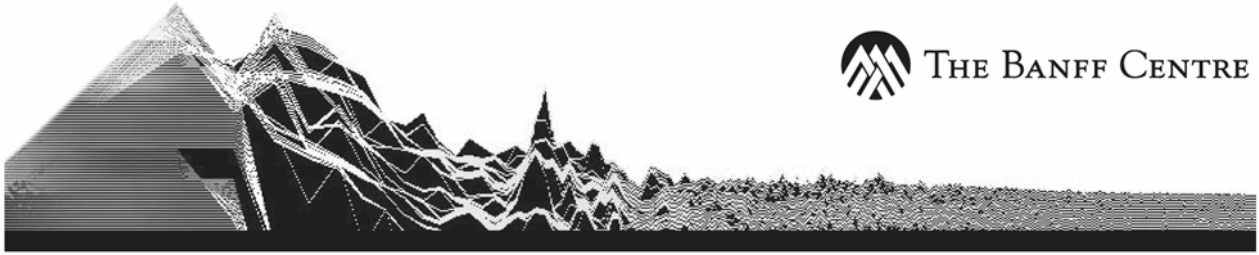
3:45pm – 5:45pm

**Memory, Fashion, Objects and the Body**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Co-Moderated by: Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, with **Mik Lamming**, Distinguished Scientist, Hewlett Packard Labs, Palo Alto (California)

- **Joey Berzowska**, Assistant Professor, Department of Design Art, XS Labs, Concordia University (Québec)
- **Marcelo Coelho**, Research Coordinator, XS Labs, Concordia University (Québec)
- **Christine Keller**, MFA, Dipl. Des., Department of Fine Arts, XS Labs, Concordia University (Québec)
- **Paul Yarin**, President, Blackdust Design (California)
- **Vincent Leclerc**, Research Assistant, Tangible Media Group, MIT Media and XS Labs (Massachusetts)
- **Filiz Klassen**, Associate Professor, Ryerson University (Ontario)



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# Agenda - Bodies in Motion: Memory, Personalization, Mobility and Design

5:45pm – 8:00pm  
DINNER and FREE TIME

8:00pm – 8:30pm

### Wellness, Healing, Memory and New Media - Strategies That Use Memory Part 1

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Moderated by: Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute

- **Lizbeth Goodman**, Director, SMARTLab, Central Saint Martins College of Art and Design, University of Arts, London, HOME, TRUST, HOPE and SAFETYNET Projects (United Kingdom/USA/Africa)

8:30pm – 9:30pm

### HorizonZero Demo - Dream! Wear! Ghost! and Open Discussion (with beer and wine)

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Co – Hostesses: Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, and **Martha Ladly**, Professor of Design, Ontario College of Art and Design (Ontario)

## Sunday, June 26<sup>th</sup>

8:00am – 9:00am

### Technical Run Through

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

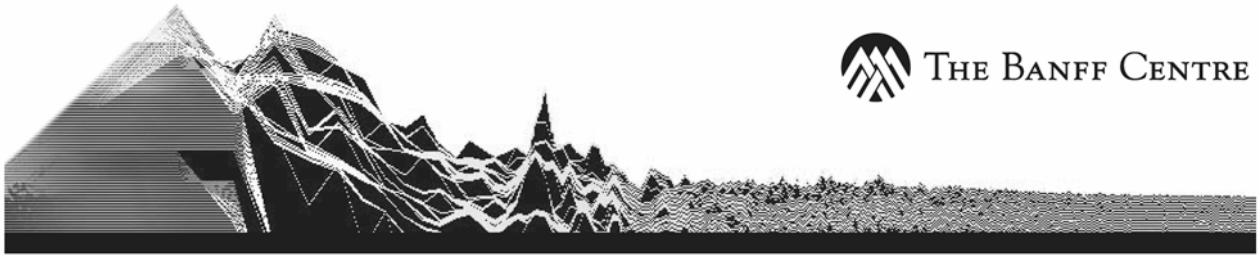
**\*ALL PRESENTERS FOR THE DAY MUST ATTEND - see technical run through schedule for times.**

9:00am – 9:30am

### Summary of Day One

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

- **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute



## BANFF NEW MEDIA INSTITUTE

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### Agenda - Bodies in Motion: Memory, Personalization, Mobility and Design

9:30am – 10:30am

#### **Wellness, Healing, Memory and New Media - Strategies That Use Memory Part 2**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Co-Moderated by: Ron Wakkary**, Associate Professor, Simon Fraser University, School of Interactive Arts and Technology (British Columbia) with **Heidi Tikka**, Media Artist and Researcher, UIAH Media Lab (Finland)

- **Nathalie Prévost**, Ph.D. Cognitive Science, Limbics Founder and Planum Temporale (British Columbia) and **Maria Lantin**, Visualization Researcher, Manager, A.R.T. Labs, The Banff Centre
- **Magda Wesolkowska**, Lecturer/Researcher, University of Montreal (Québec); *Aging and memory installations, working with forgetting and the forgotten*

10:30am – 10:45am

**BREAK**

10:45am – 1:00pm

#### **Embodied Memory, Presence and Performance**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Co-moderated by: Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, with **Joey Berzowska**, Assistant Professor, Department of Design Art, Concordia University (Québec)

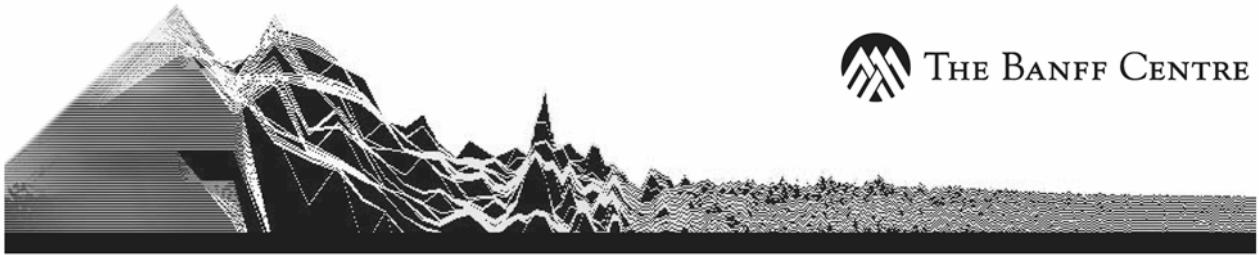
- **Thecla Schiphorst**, Associate Professor, Whispers Group, Simon Fraser University (British Columbia)
- **Gretchen Elsner**, Designer, Whispers Group (British Columbia)
- **Sang Mah**, Researcher, Whispers Group, Charactermotion.com (British Columbia)
- **Michelle Teran**, Media Artist, Waag Society for Old and New Media (The Netherlands)
- **Julie Andreyev**, Artist/Associate Professor, Emily Carr Institute (British Columbia)

1:00pm - 2:00pm

**LUNCH**

\*\*\*please note: last service in the dining room is at 1:30pm\*\*\*





## BANFF NEW MEDIA INSTITUTE

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### Agenda - Bodies in Motion: Memory, Personalization, Mobility and Design

**2:00pm – 3:30pm**

#### **Time, Memory and Motion – Transdisciplinary Perspectives**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Co-Moderated by: Ron Wakkary**, Associate Professor, Simon Fraser University, School of Interactive Arts and Technology (British Columbia), and **Tom Donaldson**, Lead Faculty, A.R.T. Mobile Research Laboratory, Banff New Media Institute, The Banff Centre

- **Barry Sanders**, Canada Research Chair and iCORE Chair, Quantum Computation, University of Calgary, Quantum time memory and computation (Alberta)
- **Mike Phillips**, Director of i-DAT, Researcher, Institute of Digital Art & Technology/University of Plymouth (United Kingdom)
- **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute; *CodeZebra Habituation Cages Experiment, Delay Time, Networks and Mediation*

**3:30pm – 3:45pm**

**BREAK**

**3:45pm – 5:30pm**

#### **Mobile Games Meet Location Based Experiences, Participation, Personalization**

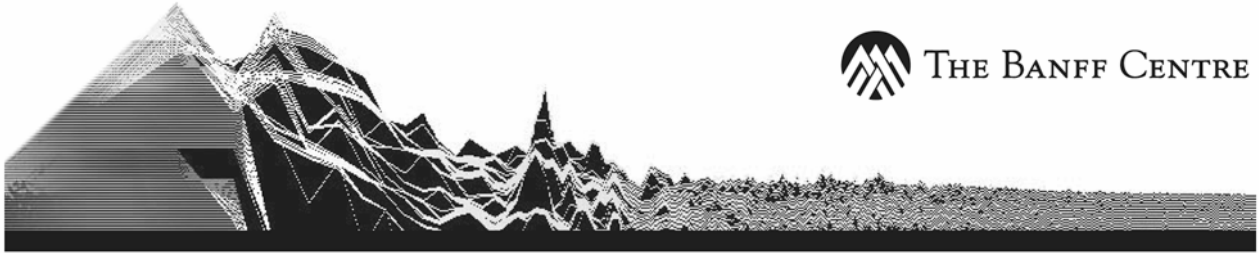
*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Co-Moderated by: Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, with **Mark Resch**, Independent (California)

- **Heather Kelley**, Game Designer, UbiSoft (Québec); *Gaming goes mobile*
- **Anthony Harckham**, President, Ordino Inc. (Alberta); *Report on market opportunities for mobile gaming in Canada, business models*
- **Ron Wakkary**, Associate Professor, Simon Fraser University, School of Interactive Arts and Technology (British Columbia)
- **Jim Bizzocchi**, Assistant Professor, School of Interactive Arts and Technology, Simon Fraser University (British Columbia)

**5:30pm – 7:30pm**

**DINNER**



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### Agenda - Bodies in Motion: Memory, Personalization, Mobility and Design

**7:30pm \*Open to the public, part of the Banff Summer Art Festival\***  
**Fashioning Memory: Wearing Emotional Systems (An exiting demo in wearable computing and the future of fashion)**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Moderated and Introduced by: Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, with **Joey Berzowska**, Assistant Professor, Department of Design Art, Concordia University (Québec)

- **Di Mainstone**, Fashion Designer, Am-I-Able Project, The Banff Centre; *Company Keeper, Emotional Ties, Investigative Haute Couture*
- **Tomoko Hayashi**, Fashion Designer, Am-I-Able Project, The Banff Centre; *Crying ties, perfume project, Intimacy Project*
- **Barbara Layne**, Hexagram Researcher, Concordia University, Hexagram (Québec); *Intelligent cloth structures for the creation of artistic, performative and functional textiles.*
- **Tom Donaldson**, Lead Faculty, A.R.T. Mobile Research Laboratory, Banff New Media Institute, The Banff Centre and **Tina Gonsalves**, Artist, Medulla Intimata (Australia); *Responsive jewelry*

## **Monday, June 27<sup>th</sup>**

**8:00am – 9:00am**

### **Technical Run Through**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

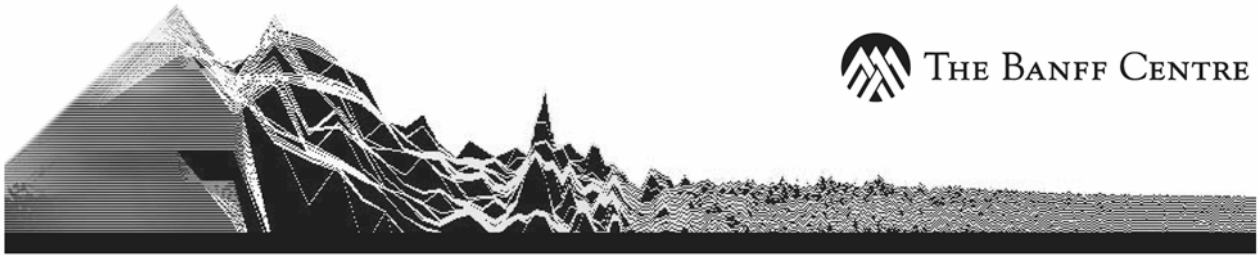
**\*ALL PRESENTERS FOR THE DAY MUST ATTEND - see technical run through schedule for times**

**9:00am – 9:30am**

### **Summary of Day Two**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

- **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute



## BANFF NEW MEDIA INSTITUTE

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### Agenda - Bodies in Motion: Memory, Personalization, Mobility and Design

9:30am – 12:30pm

**Indoor/Outdoor Global Heart Rate Framework and Demonstration:**  
**A Presentation on Research Prototype and Field Experience**

*Location: Meet in Rice Studio for an overview of the project and then leave for the hike at the Hoodoo Trail (BRING COMFY SHOES AND WATER)*

**Co-Facilitator and Presenter:** **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute

- **Anita Johnston**, Games Designer, Banff New Media Institute,
- **Angus Leech**, Interactive Writer, Banff New Media Institute
- **Tom Donaldson**, Mobile Engineer, Banff New Media Institute
- **David Gauthier**, Games Programmer, Banff New Media Institute

12:30pm – 1:30pm

**LUNCH**

\*\*\*please note: last service in the dining room is at 1:30pm\*\*\*

1:30pm – 2:20pm

**Debrief from Global Heart Rate**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Moderated by:** **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute

2:20pm - 3:30pm

**Ubiquitous Environments: Things that Remember and Things that Forget**

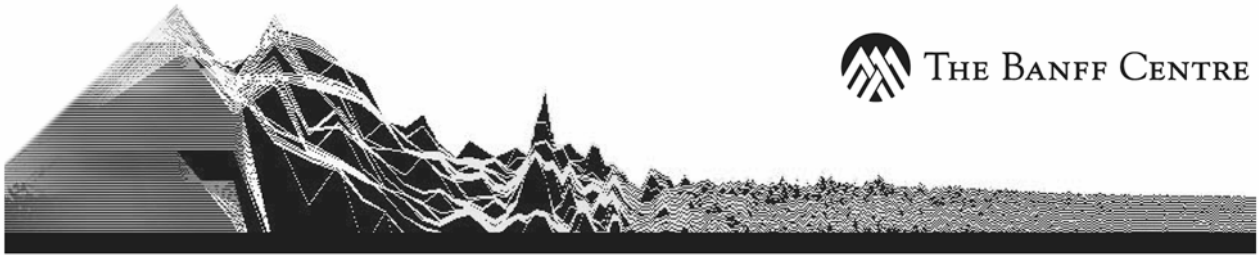
*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

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- **Mihaela Ulueru**, Canada Research Chair, The University of New Brunswick, (New Brunswick); *Adaptive Information Infrastructures for the e-Society*
- **Vincent John Vincent**, President, GestureTek Inc. (Ontario); *Deeply immersive experiences, technologies and objects*
- **Carmen Gerstl**, Architect/Artist (Mexico); *Deeply immersive experiences, technologies and objects*

3:30pm – 3:45pm

**BREAK**



## BANFF NEW MEDIA INSTITUTE

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### Agenda - Bodies in Motion: Memory, Personalization, Mobility and Design

3:45pm – 5:15pm

#### **Sports Culture, Body, Movement, Personalization and the Future of Technologies**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Co-Moderated by:** **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, with **Suzanne Stein**, Director, Insight and Foresight, Corporate Strategy, NOKIA Corporation (United Kingdom)

- **Sean Maw**, Sports Science/Engineering Consultant, University of Calgary (Alberta)
- **Marc Morisset**, General Manager and Marketing Director, Four Star Distribution Canada (British Columbia)
- **Jan Storgårds**, Chief Software Architect PC/Net/Mobile, Suunto R&D (Finland)

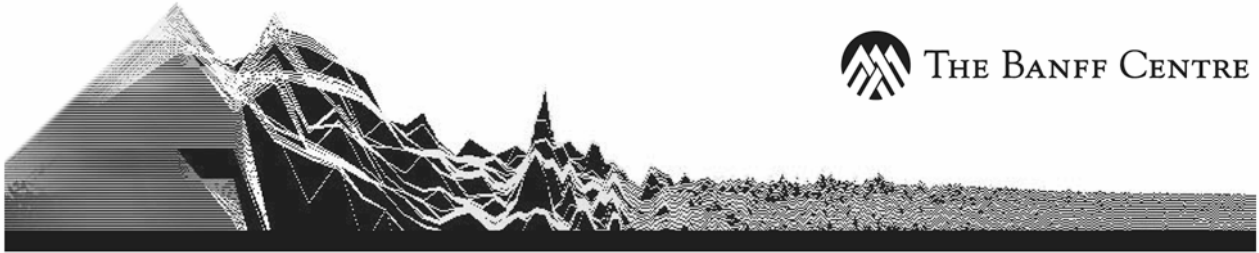
5:15pm – 8:30pm

**DINNER AND FREE TIME**

8:30pm – 1:30am

#### **Go to Sara Diamond's House in Canmore - Bodies in Motion Party**

- The **bus leaves promptly at 8:30pm** from outside Lloyd Hall (across the street from the Kiln Coffee Shop)
- We will stop at the liquor store in Canmore on the way
- Snacks provided at Sara's
- **No shoes in the house** please (nice socks!) but bring walking shoes, we may go for a walk to the river
- **Bus returns to the Banff Centre at 12:00am and 1:30am**



## BANFF NEW MEDIA INSTITUTE

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### Agenda - Bodies in Motion: Memory, Personalization, Mobility and Design

## **Tuesday, June 28<sup>th</sup>**

**9:30am – 10:00am**

### **Review of Day Three**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute

**10:00am – 11:30am**

### **Review of Key Research Points**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, with facilitation from **Joey Berzowska**, Assistant Professor, Department of Design Art, Concordia University (Québec), **Ron Wakkary**, Associate Professor, Simon Fraser University, School of Interactive Arts and Technology (British Columbia), **Mark Resch**, Independent (California), **Heidi Tikka**, Media Artist and Researcher, UIAH Media Lab (Finland), **Tom Donaldson**, Lead Faculty, A.R.T. Mobile Research Laboratory, Banff New Media Institute, The Banff Centre

**11:30am – 12:30pm**

### **Working Group Meetings**

**12:30pm – 1:30pm**

**LUNCH**

**\*\*\*please note: last service in the dining room is at 1:30pm\*\*\***

**1:30pm – 4:00pm**

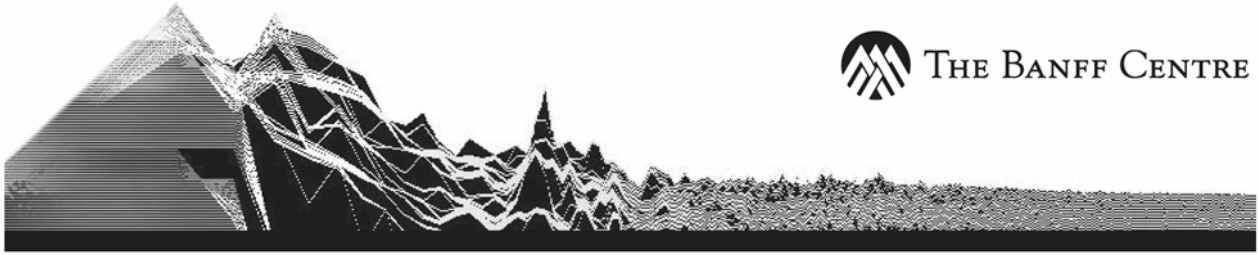
### **Group Work Check-In and Continuation of Meetings**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**4:00pm – 4:30pm**

### **Group Work Reports**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*



## BANFF NEW MEDIA INSTITUTE

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### Agenda - Bodies in Motion: Memory, Personalization, Mobility and Design

4:30pm – 5:30pm

**Conclusions and Summit Evaluation**

*Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)*

**Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, Banff New Media Institute, with facilitation from **Joey Berzowska**, Assistant Professor, Department of Design Art, Concordia University (Québec), **Mark Resch**, Independent (California), **Heidi Tikka**, Media Artist and Researcher, UIAH Media Lab (Finland), **Tom Donaldson**, Lead Faculty, A.R.T. Mobile Research Laboratory, Banff New Media Institute, The Banff Centre

5:30pm – 7:30pm

**Final Cocktail Farewell**

*Location: Jeanne and Peter Lougheed Building (JPL), 3<sup>rd</sup> Floor Balcony (weather permitting, Atrium if not)*

9:00pm

**OPTIONAL HOT SPRINGS IMMERSION**