

BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

Inside/Outside: Responsive Environments and Ubiquitous Presence

August 5th – 8th, 2004

This event is made possible through the support of:



Canadian
Heritage

Patrimoine
canadien



Telefilm Canada

Canada



CORE

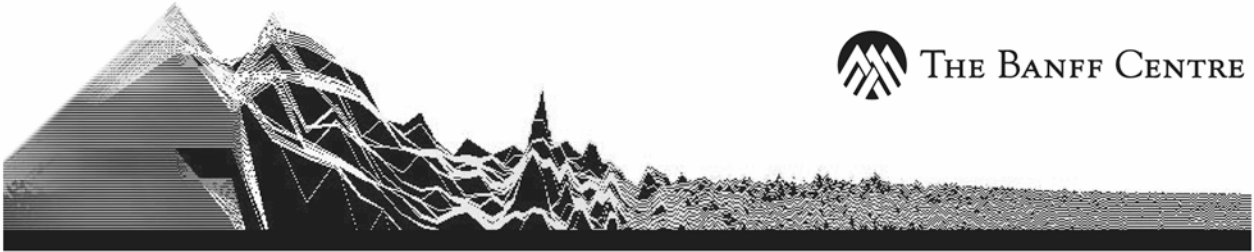


Bell
Globemedia

THE ROCKEFELLER FOUNDATION

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.

Listen live at www.horizonzero.ca OR
www.banffcentre.ca/bnmi



BANFF NEW MEDIA INSTITUTE

THEMES

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

“Inside/Outside: Responsive Environments and Ubiquitous Presence” considers the responsive environments of everyday life and extends these into performance and display. These include fashion and wearable technologies, home technologies, artworks and architectures.

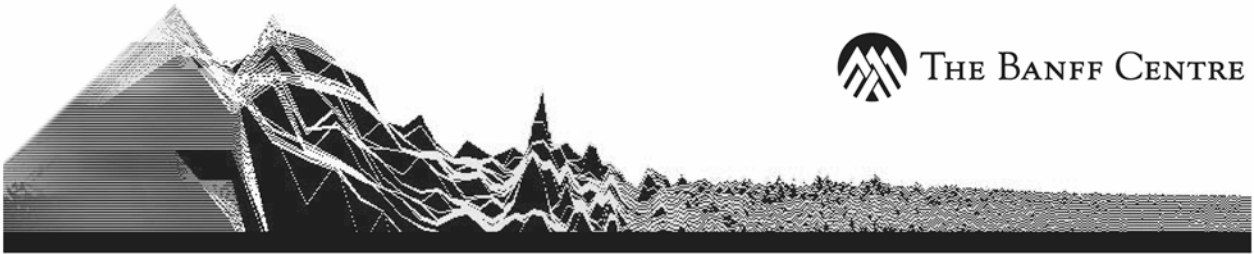
Fashion: The summit piggy backs onto and extends the dialogues from **“Outside/Inside: Boundary Crossings A Wearable Design Workshop”**, a four day deep exploration of wearable computing, fashion and costume. It will extend the metaphor and materials of response to consider wearable computing. Material, fabric, garment, costume, device and experience designers will share their work with engineers, scientists, fashion theorists, technology companies and each other.

The workshop and the summit will consider in what contexts do men and women make use of wearable computers? What are creative approaches for creating wearable content experiences and expressions, what are the challenges (power sources for example)? How do we analyze fashion that lives under and on the skin?

Architectures: Public Spaces and Private: What value does ubiquity provide to architecture? What is the nano dream home of the future? Can your home emulate the subtlety of your emotions? Can it heal you? Can environments be extensible, wearable, inhabitable, and mobile? What is the future of urban spaces? What are the tensions between surveillance and responsiveness? Is ubiquity frightening, desirable?

The Ecological and Human Environment: Are responsive environments alive? Are they ecologically friendly? How do we understand the changing nature of “nature”?

Immersive and Responsive Cultural Spaces: Musicians, designers and artists have created immersive and responsive experiences that transport their participants. What can we learn about the new powers of sound, tactile, olfactory, and visual media?



BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

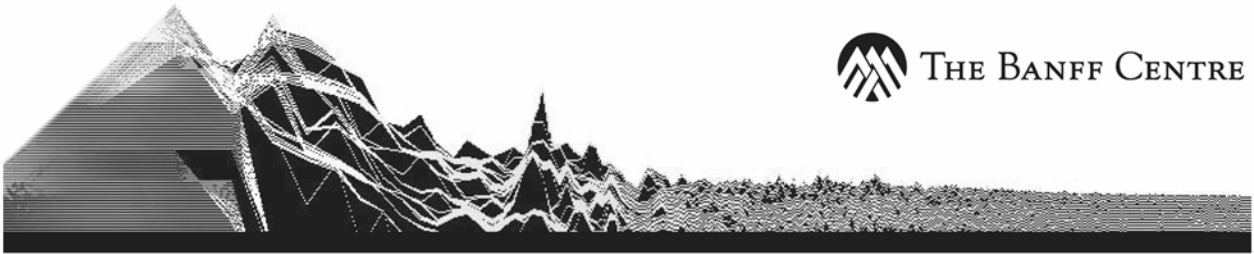
Engineering Responsiveness: What are the scientific and engineering strategies that combine to create responsive spaces, garments and ecologies?

Cultural Theory: What theories can we use to map these complex relationships between technologies and humans, the complex axes of awareness, presence, responsiveness and ubiquity?

GOALS

1. Consider and critique initiatives in fashion, architecture; home technology, art and design.
2. Exchange research and creative initiatives and methodologies.
3. Create research and development networks and alliances for future projects.

In your presentations, please respond as best you can to the issues and questions found in the themes discussion above.



BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

AGENDA

Sara Diamond, Director of Research, The Banff Centre and Artistic Director, BNMI, The Banff Centre, will moderate or co-moderate most sessions unless otherwise noted.

Wednesday, August 4th

3:00pm – 6:00pm

Open Studio: Wearable Computing

Location: Jeanne and Peter Lougheed Studios (JPL), various studios

For those participants who have arrived by this time, we encourage you to attend these open studios for the BNMI *Outside/Inside: Boundary Crossings, a Wearable Design Workshop*. Participants from this workshop have been in Banff from August 1st to August 4th at this workshop.

6:00pm – 7:30pm

DINNER

7:30pm - 9:00pm

Conclusions of Wearables Workshop: Design review and discussion

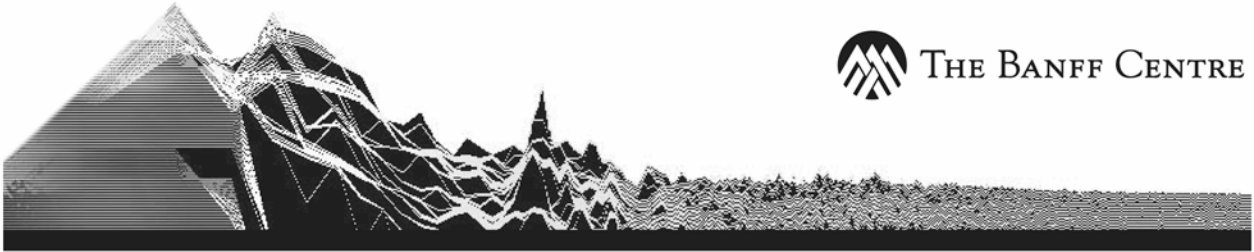
Location: Rice Studio, The Jeanne and Peter Lougheed Building (JPL)

Discussion of what participants want to carry forward. Responsive summit attendees are welcome to join us.

9:00pm

Meet and Greet Reception

Location: Professional Development Centre (PDC) Room 202



BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

Thursday, August 5th

8:00am – 9:00am

Technical Run Through

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

- **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, BNMI, The Banff Centre

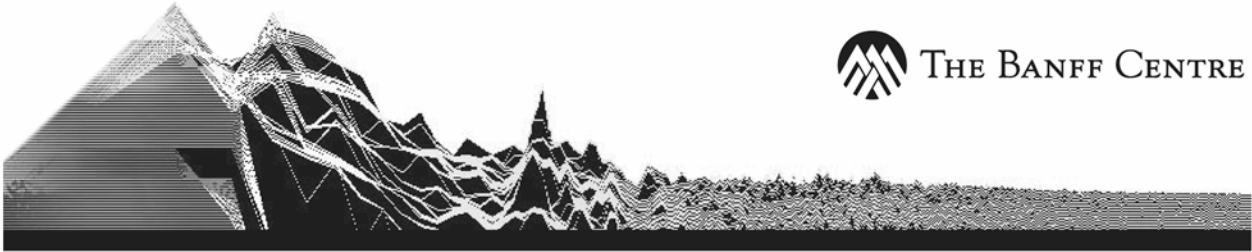
9:45am – 11:45am

Soft Computing, Software—Touching the Potential of Responsive Fashion

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

Moderators: Sara Diamond, Director of Research, The Banff Centre and Artistic Director, BNMI, The Banff Centre and **Victoria Vesna**, Artist, Professor and Chair, Design/Media Arts, UCLA (Los Angeles, California)

- **Joanna Berzowska**, Assistant Professor, Concordia University (Montreal, Quebec) - *Soft computation and squishy interfaces: responding to and with memory*
- **Nicola Green**, Professor, Department of Sociology, University of Surrey (Surrey, UK) - *Identity and Responsive Fashion - The Intersection of Technology, Culture, Bodies and Media*
- **Susan Jenkyn Jones**, Fashion Design Leader (Senior Lecturer), Fashion and Textiles, Central Saint Martins, The University of the Arts (London, UK) - *Will the Fashion Industry Take Up Responsive Designs As More Than A Gimmick? Case study in Virtual Fashion Design*
- **Elise Co**, Designer, Research Assistant, MIT Media Lab, mintymonkey (Santa Monica, California) - *Reactive Garments, Luminescent Aesthetics*



BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

11:45am – 12:00pm
BREAK

12:00pm – 1:00pm

Cellular and Spectacular Responsiveness: Artist's Talk

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

- **William Curtis Seaman**, Director, Digital Media Department (Graduate Division), Rhode Island School of Design - *Theorizing Polysensing Environments - Notes for a Model for an Electrochemical Computer and Other Recent Projects*

1:00pm – 2:00pm
LUNCH

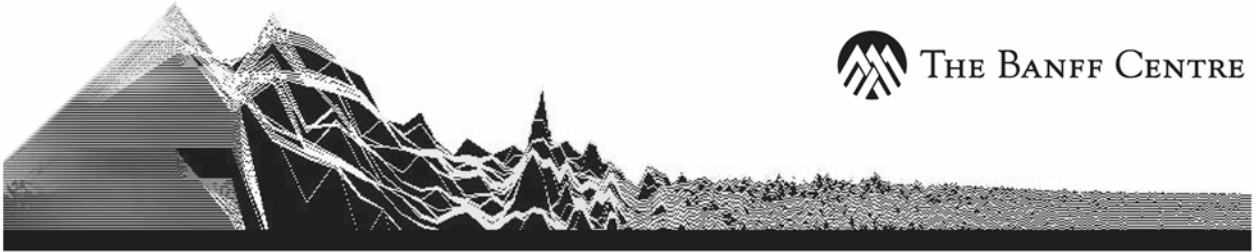
2:00pm – 4:00pm

Changing the Nature of Nature? Theories and Case Studies: The Body, The Environment, Nanotechnology - Are Responsive Environments Alive? Are They Ecologically Friendly?

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

Moderators: Sara Diamond, Director of Research, The Banff Centre and Artistic Director, BNMI, The Banff Centre and **Tom Donaldson**, Software Developer (London, UK)

- **Victoria Vesna**, Design/Media Arts, UCLA (Los Angeles, California) - *Communications, Collective Behaviors and Identity; Art and Scientific Identity; Recent Projects in Fashion and Nanotechnology*
- **Marc Böhlen**, Artist/Engineer. Assistant Professor, University at Buffalo (Buffalo, New York) - *The Consequences of Automated Measurement and Control in Domains Ranging from Bad Breath to Plant Growth, Animal Husbandry, Whistled Voices and Customer Services*
- **Nina Czegledy**, Artist, Critical Media, ISEA (Toronto, Ontario) - *Changing Perceptions of the Human Body*
- **Gisèle Trudel**, Media Artist and Professor, Université du Québec à Montréal, École des Arts Visuels et Médiatiques (Montreal, Quebec) - *Representing Invisibles Through Structural Intuitions Linking Art, Nature and Science; Current Research with Micro and Nano Imaging Technologies*



BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

4:00pm – 4:15pm
BREAK

4:15pm – 5:45pm

New Materials meet Old: Weaving, Inks, Dyes, 3D Materials and Their Expressive Potentials

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

Moderator: Joanna Berzowska, Assistant Professor, Concordia University (Montreal, Quebec)

- **Barbara Layne**, Artist, Researcher, Associate Professor, Studio Arts, Concordia University - Hexagram Institute (Montreal, Quebec) - *Intelligent Cloth Structures for Performative, Artistic and Functional Textiles.*
- **Aboubakar Fofana**, Textile Designer, Calligraphe & Graphiste (Aubervilliers, France) and **Aissatou Djionne**, Textile Designer, Furniture Designer & Gallerist (Senegal) - *Weaving and Dying Materials, New Methods*
- **Denis Gadbois**, Professor, Faculty of Environmental Design, University of Calgary (Calgary, Alberta) - *Making Physical the Virtual 3D Printing and Other Graphics Systems*

5:45pm – 6:30pm
DINNER

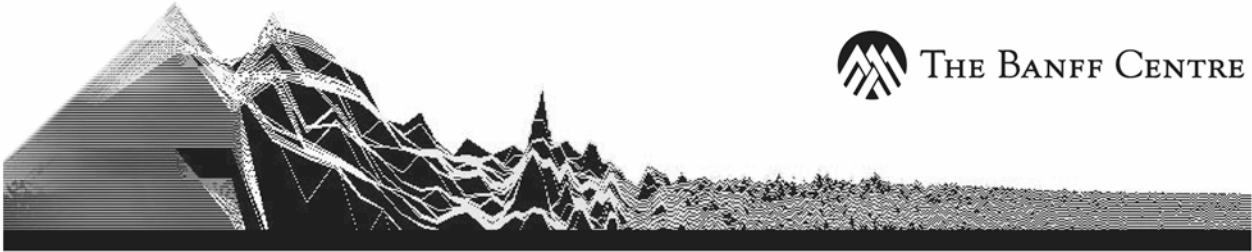
6:30pm – 11:00pm

DRESS REHEARSAL OF FASHION SHOW FOR FASHIONISTAS

Location: Hallway, Jeanne and Peter Lougheed Building (JPL)

OR

FREETIME FOR OTHERS



BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

Friday, August 6th

8:00am – 9:00am

Technical Run Through

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

All presenters FOR THE DAY must attend - see technical run through schedule for times.

9:00am – 9:30am

Review of Day One

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

- **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, BNMI, The Banff Centre

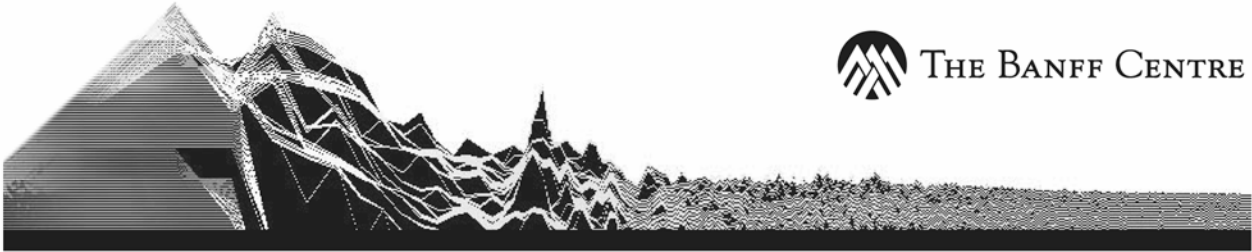
9:30am – 11:30am

Architectures: Public and Private Spaces: What Value Does Ubiquity Bring to Architecture? What is the Nano Dream Home of the Future? Where Does Design, Architecture and Body Meld?

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

Moderator: Sara Diamond, Director of Research, The Banff Centre and Artistic Director, BNMI, The Banff Centre

- **Kathryn Saunders**, CEO and Creative Director, Kathryn Saunders Design Inc. and Coordinator, Game Design and Advanced Digital Design, George Brown College (Toronto, Ontario) - *Thoughts on the Future of Ubiquitous Architecture, Case Studies from Public Domain Experience Design (The Museum as Laboratory)*
- **Ron Wakkary**, Professor, School of Interactive Arts and Technology, Simon Fraser University (Surrey, BC) - *Ambient Intelligent Environments, Theory and Practice - Socio Echo*
- **Natalie Tan**, Architect, Frshr Atelier (Toronto, Ontario) - *Responsive Environments and Small Real Built Architectures; In the Context of Revolving Clothes Horses, Electric Garages and Photoelectric Cells*
- **Sabine Seymour**, CEO and Chief Creative Officer, Moondial Inc. and Design Fellow, Parsons School of Design (Austria) - *Wearables, Furniture, Intelligent Clothing, Smart Architectures, Mobile Devices – PHONE-IN PRESENTATION*



BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

11:30am - 11:45am
BREAK

11:45am – 1:00 pm

Responsive Architectures – Music, Media and Emotion

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

Moderator: Sha Xin-Wei, Professor, School of Literature, Communication & Culture, Georgia Tech (Atlanta, Georgia)

- **Tom Donaldson**, Software Developer (London, UK) and **Tina Gonsalves**, Artist (Australia) - *Digital Responsive Jewelry and Biosensing; Clutch Case Study; Computational Models for Wearables*
- **Mark d'Inverno**, Professor, Cavendish School of Computing, University of Westminster (London, UK) - *Intelligent Responsive Sound (and the Power of Joy)*

1:00pm – 2:00pm

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

2:00pm – 3:15pm

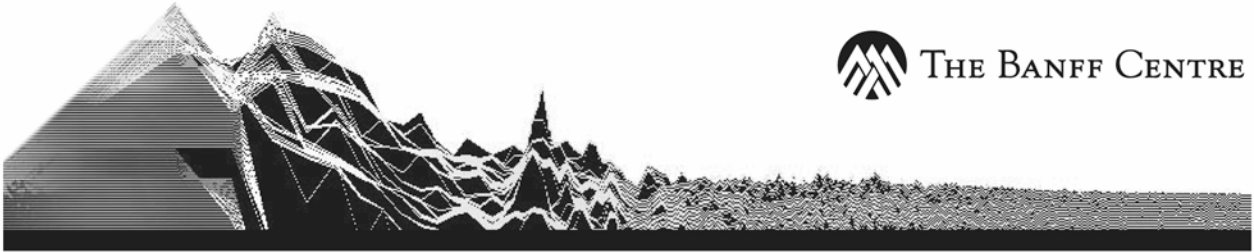
Mobility, Ubiquity- Contained or Guaranteed? What are the Tensions Between Surveillance, Malleability and Responsiveness?

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

Moderators: Susan Kennard, Executive Producer, Banff New Media Institute, The Banff Centre and **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, BNMI, The Banff Centre

- **Anne Galloway**, PhD Candidate, Department of Sociology and Anthropology, Carleton University (Ottawa, Ontario) - *Intimate and Playful Technologies: Ubiquitous Computing, Space and Culture*
- **Katherine Moriwaki**, Ph.D. Candidate, Networks and Telecommunications Research Group (NTRG) (Dublin, Ireland) - *Wearables, Fashion, and the Experiential Resonance of Technologically Mediated Urban Public Space*

3:15pm – 3:30pm
BREAK



BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

3:30pm – 5:30pm

Topological Desire and Responsive Performance Environments

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

Moderators: Sara Diamond, Director of Research, The Banff Centre and Artistic Director, BNMI, The Banff Centre and **Magdalena Wesolkowska**, BNMI Collaboration Researcher, The Banff Centre, Lecturer/Researcher, University of Montreal (Montreal, Quebec)

- **Yacov Sharir**, Professor, Dance and Virtual Environments, University of Texas at Austin (Austin, Texas) - *Wearable Computing and Augmented Performances, Improvisation and Choreography in the Virtual/Physical Worlds*
- **Chris Salter**, Sponge and Visiting Professor, Rhode Island School of Design (Berlin, Germany) - *Sponge's Public Experiments in Perception and Phenomenology*
- **Maja Kuzmanovic**, Coordinator, FoAM (Brussels, Belgium) - *The Interstitial Spaces Between Virtual and Physical, Natural and Technological, Cultural and Scientific; Case Studies*
- **Sha Xin-Wei**, Professor, School of Literature, Communication & Culture, Georgia Tech (Atlanta, Georgia) and **Harry Smoak**, Graduate Student, Topological Media Lab, Georgia Institute of Technology (Decatur, Georgia) - *Topological Media Lab: Art Research on Gestural and Calligraphic Media*

5:30pm – 6:00pm

ALL FASHIONISTAS SHOULD HAVE A QUICK DINNER

6:00pm – 9:30pm

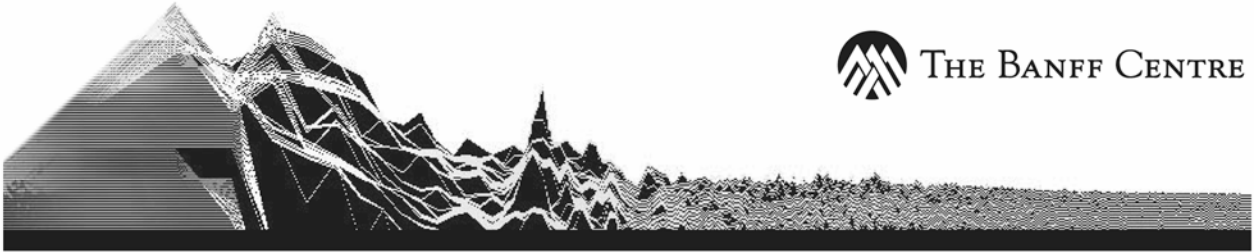
CUE TO CUE FOR ALL FASHIONISTAS: PREP FOR FASHION SHOW

Location: Jeanne and Peter Lougheed Building (JPL), Main Hallway

OR

5:45pm – 9:30pm

DINNER AND FREE TIME FOR OTHERS



BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

9:30pm – 1:00am

Wearables Fashion Show And HorizonZero Anniversary Party

Location: Jeanne and Peter Lougheed Building (JPL), Main Hallway

A fashion show like no other celebrates the second anniversary of Canada's premier online digital arts and culture publication, *HorizonZero*

Saturday, August 7th

9:00am – 10:00am

Technical Run Through

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

All presenters FOR THE DAY must attend – see technical run through schedule for times.

10:00am – 10:30am

Review of Day Two

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

- **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, BNMI, The Banff Centre

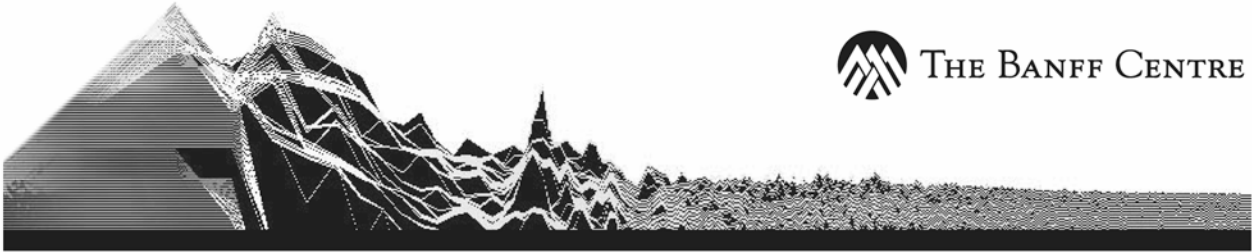
10:30am – 12:30pm

The Theory and Practice of Immersive Social Interaction

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

Moderator: Sara Diamond, Director of Research, The Banff Centre and Artistic Director, BNMI, The Banff Centre and **Ron Wakkary**, Professor, School of Interactive Arts and Technology, Simon Fraser University (Surrey, BC)

- **Susan Kozel**, Doctor, School of Interactive & Technology, SIAT, Simon Fraser University, Surrey Campus (Surrey, BC) - *Wearable Body Architectures - The Social Interface Between Bodies and Computers*
- **Valerie Lamontagne**, Artist (Montreal, Quebec) - *Relational Performance and Ubiquity*
- **Fabian Winkler**, Visiting Assistant Professor of Art, School of Art, Carnegie Mellon University (Pittsburgh, Pennsylvania) - *Responsive Social Spaces*



BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

- **Magdalena Wesolkowska**, BNMI Collaboration Researcher, The Banff Centre, Lecturer/Researcher, University of Montreal (Montreal, Quebec) - *Enabling 'Social Splicings' Through Responsive/Responsible Spaces, or How to Create Wellbeing Through Active Presence, Participation and Play*

12:30pm – 1:30pm
LUNCH

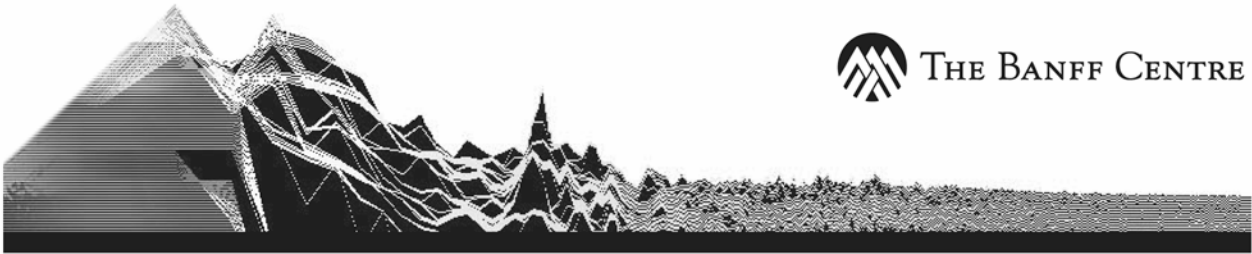
1:30pm – 3:30pm

Sensory Understandings/Responsive Metaphors - Music of the Cells, Ecstatic Camouflage and The Power of Scent

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

Moderators: Sara Diamond, Director of Research, The Banff Centre and Artistic Director, BNMI, The Banff Centre and **Marc Böhlen**, Artist/Engineer. Assistant Professor, University at Buffalo (Buffalo, New York)

- **Jenny Tillotson**, Senior Research Fellow, Fashion Textile Design, Central Saint Martins College, of Art & Design (Bayonne, France) - *Computerized Scent Output Systems for Health and Well-Being.*
- **Vincent LeClerc**, Freelance Interactive Designer (Vancouver, BC) - *Enriching sensations towards interrelationship and communication*
- **Anne Niemetz**, Artist (Los Angeles, California) - *Singing cells and Wearable Music Instruments; "The Dark Side of the Cell", "Stretching L.A.," "Suspending Disbelief" and Sketches*
- **CodeZebra Design Team: Sara Diamond with Joanna Berzowska**, Assistant Professor, Concordia University (Montreal, Quebec), **Maya Ersan**, Sculptress (Vancouver, BC), **Susan Jenkyn-Jones**, Fashion Design Leader (Senior Lecturer), Fashion and Textiles, Central Saint Martins, The University of the Arts (London, UK), **David Jhave Johnston**, Engineer (Montreal, Quebec), **Jeroen Keijser**, Visualization Research Work Study, **Maria Lantin**, Visualization Researcher, **The Banff Centre**, **Vincent LeClerc**, Freelance Interactive Designer (Vancouver, BC), **Victoria Lawton**, Fashion Designer (London, UK) and **Larissa Virdee**, Fashion Designer (London, UK) - *Learning from the Animals*



BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

3:30pm – 4:45pm
FREE TIME

4:45pm – 12:00 midnight

Soiree with Sara and Canmore Afternoon Walk/Hike

- Bus leaves from outside Lloyd Hall at 4:45pm, sharp!
- Bus will stop at liquor store
- light meal provided
- Bring walking shoes. Participants are welcome to lounge at the house, take short walks or come for a longer hike/walk around the Canmore area. Then we'll have some food, drinks and relax together.
- Bus returns to Banff at 12:00am

Sunday, August 8th

9:30am – 10:00am

Review of Day Three

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

- **Sara Diamond**, Director of Research, The Banff Centre and Artistic Director, BNMI, The Banff Centre

10:00am - 3:00pm

Conclusions, Future Directions and Evaluations

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

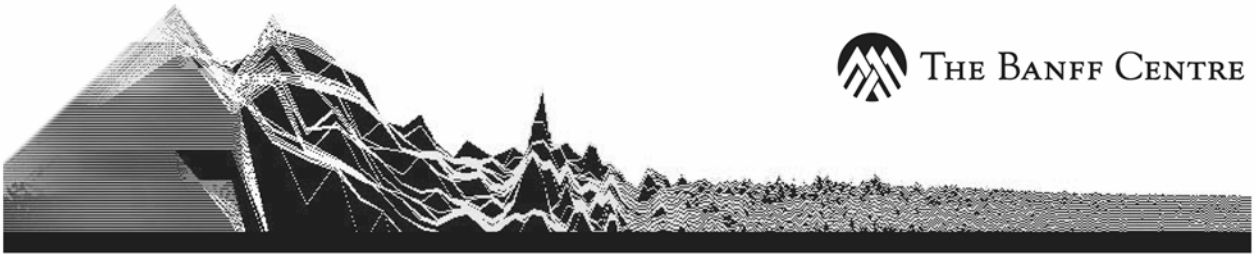
We will have a roundtable and some possible group work, including over lunch, with conclusions to follow

3:00pm – 6:00pm

Advanced Research Technologies Laboratory (A.R.T. lab) open house

Location: A.R.T. Lab, Basement of Jeanne and Peter Lougheed Building (JPL)

Tour the new A.R.T. lab and see what's going on metaphorically and literally underground.



BANFF NEW MEDIA INSTITUTE

2004

Agenda: Inside/Outside: Responsive
Environments and Ubiquitous Presence

- **Maria Lantin**, Visualization Researcher, Banff New Media Institute, The Banff Centre

6:00pm – 7:00pm

Final Cocktail Farewell

Location: Jeanne and Peter Lougheed Building (JPL), 3rd Floor Balcony

9:00pm

OPTIONAL HOT SPRINGS IMMERSION