

Thecla Schiphorst Curriculum Vitae

Associate Professor, School of Interactive Arts & Technology, Simon Fraser University

Educational Background

- Ph.D. School of Computing, Communications and Electronics (Oral Defence | Vive Voce scheduled Summer 2008), Faculty of Technology, University of Plymouth, United Kingdom
Dissertation: The Varieties of User Experience: Bridging Methodologies from Somatics and Performance to Human Computer Interaction
- 1993 M.A. Under Special Arrangements: Interdisciplinary (Dance and Computing Science), Simon Fraser University, Canada
Thesis: A Case Study of Merce Cunningham's Use of the Lifeforms Computer Choreographic System in the Making of "Trackers"
- 1984 B.G.S. Dance and Computing Science, Simon Fraser University, Canada
Dance Analysis: The Use of Laban Effort Shape Movement Analysis in the Animation of Human Figures
- 1976 Dipl.T. Diploma of Technology in Computer Programming and Systems Analysis, Magna Cum Laude, Academic Scholarship Recipient for Academic Achievement, British Columbia Institute of Technology, Canada
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Other Professional Training

- June 2005 - August 2005 Somatics - Pilates Theory Modules 1, 2 and 3, Pilates Theory Modules cover bio-mechanics of movement, breathwork and integration of balance and control for spinal stability and freedom of motion.
- September 2003 - June 2004 Anatomy and Physiology Certified for Body Practitioners - instructor Carol Anne Bickerstaff, homoepathy and kinesiology, Certified Anatomy and Physiology for Body Practitioners.
- September 2002 - December 2003 Applied Kinesiology, BodyTalk Certification, Modules 1 through 9
- September 2001 - December 2002 Somatics: EMF Balancing Technique, Modules I through IV
- September 1993 - September 1995 Applied Kinesiology, Touch for Health Modules 1 through 5.
- June 1988 - August 1988 Applied Kinesiology - BMC: Body-Mind-Centering Movement Somatics Technique, developed by Bonnie Bainbridge Cohen
- June 1984 - August 1988 Somatics - Laban Effort/Shape Movement Analysis System, Laban Effort/Shape Analysis is the study of the movement effort qualities based on Rudolph Laban's system. Used to analyze qualitative movement for choreography, movement studies such as efficiency and ergonomics, and everyday movement and biometric principles of motion studies.
- September 1982 - September 1984 Somatics: Awareness Through Movement Feldenkrais Training, Awareness through Movement is based on the Feldenkrais Method that focuses on awareness and structural change of postural movement
- January 1976 – December 1995 Contemporary Modern Dance Technique (Cunningham, Limon, Contact Improvisation, Ballet, Butoh, Balinese) and Choreography training including: Merce Cunningham, Kei Takei, EDAM, and many others
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Employment History at Academic Institutions

May 2002 - Current	Associate Professor, School of Interactive Arts and Technology (SIAT), Simon Fraser University
May 2000 - April 2002	Associate Professor, Interactive Arts Program, Technical University of British Columbia
September 1998 - April 2001	Assistant Professor, Interactive Arts, Technical University of British Columbia
January 1996 - December 1998	Faculty Member, Design School, Media School, Emily Carr Institute of Art and Design
May 1997 - August 1997	Faculty, Computers, Media and Technology, University of British Columbia
January 1991 - December 1995	Faculty, School of Design: Electronic Computer Design Program, Emily Carr College of Art and Design
June 1995 - August 1995	Co-Director and Faculty, Computed Art Summer Intensive, School for Contemporary Arts, Simon Fraser University
September 1994 - October 1994	Visiting Faculty, Studio of Creative Inquiry, Carnegie Mellon University
June 1994 - August 1994	Co-Director and Faculty, Computed Art Summer Intensive, School for Contemporary Arts, Simon Fraser University
January 1992 - February 1992	Visiting Faculty, Design InterMedia Program: 3D Design and Interactive Systems, University of Madison-Wisconsin
January 1981 - December 1990	Continuing Faculty and Founding Member, Computer Programming and Systems Technology Department, Douglas College
September 1986 - June 1988	Sessional Faculty, School for Contemporary Arts, Dance Program, Simon Fraser University
January 1980 - September 1984	Faculty, Computer Programming and Systems Department, British Columbia Institute of Technology

Other Employment History

January 1980 - August 1985	Contract Computer Programmer/Analyst, Contract Programmer for Software Support and Maintenance for SME's
June 1979 - June 1983	Associate Systems Analyst and Computer Programmer, Daniel R. Wilson and Associates Software Development Systems Design, Software Design and Implementation
June 1976 - August 1979	Computer Programmer and Systems Analyst, Finning Tractor and Equipment Company Limited Software Design and Implementation for Networked Applications
January 1976 - August 1976	Computer Programmer, British Columbia Institute of Technology Contract for Software Design, Implementation, Testing and Documentation

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Semesterly Activity at Simon Fraser University

Semester	Type	Course	Number	Session	Type	Hours	Enrollment
2007-3	Teaching	Directed Readings: History, Theory, and Contemporary Issues in Art & Technology	IAT872	G100	Graduate Studies	3.00	1
2007-3	Teaching - Lead Faculty	Interdisciplinary Design Studio	IAT403	D100	Lecture and Laboratory	4.00	96
2006-3	Teaching – Lead Faculty	Fabricating Wearable Computing - Experience Design Studio	IAT422	E300	Lecture and Laboratory	5.00	42
2006-1	Teaching	Body Interface - Sensing and Responsive Systems	IAT320	E200	Lecture and Laboratory	3.00	53
2006-1	Teaching	Graduate Special Topics - Skin, Clothes and Buildings	IAT884	G100	Graduate Studies	3.00	5
2005-3	Teaching	Performance and Media Arts	IAT322	D100-101	Lecture and Laboratory	4.00	17
2005-1	Teaching	Masc Project/Paper Dennis Humphrey	IART 898	G100	Graduate Studies	2.00	2
2005-1	Teaching	PhD Thesis Supervision - Robb Lovell; Diana Burgoyne	IART 899	G100	Graduate Studies	2.00	2
2005-1	Teaching	Body Interface - Modules 1, 2 and 3	IART331-33	D400-402	Lecture and Laboratory	4.50	30
2004-3	Teaching	PhD Thesis Supervision - Robb Lovell, Diana Burgoyne	IART 899	G100	Graduate Studies	2.00	2
2004-3	Teaching	MetaSystems - Modules 1, 2 and 3	IART410-12	D100-400	Lecture and Laboratory	3.00	81
2004-3	Teaching	Graduate Special Topics - Embodied Interaction	IAT833	G100	Graduate Studies	3.00	4

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Semester	Type	Course	Number	Session	Type	Hours	Enrollment
2004-2	Teaching	Graduate Directed Studies - Interactive Art & Performance Literature Search; Alex Mateesco	IART 694	G100-300	Graduate Studies	1.00	1
2004-1	Teaching	Object Interaction - Modules 1, 2 and 3	IART 407-9	D100-300	Lecture and Laboratory	3.00	17
2004-1	Teaching	Body Interface - Modules 1, 2, and 3	IART331-33	D101-301	Lecture and Laboratory	6.00	24
2003-2	Teaching	Graduate Directed Readings - The Moving Body and Gesture	IART 694	G100	Graduate Studies	2.00	1
2003-1	Teaching	Kinesthetic Space - Modules 1, 2, and 3	IART328-30	D200-201	Lecture and Laboratory	3.00	24
2003-1	Teaching	Body Interface - Modules 1, 2, and 3	IART331-33	D100-400	Lecture and Laboratory	3.00	17
2002-3	Teaching	Object Interaction - Modules 1, 2, and 3	IART 407-9	D100	Lecture and Laboratory	2.00	23
2002-3	Teaching	Graduate Studies - Media Practice and Theory	IART 600	G100	Graduate Studies	3.00	6

Senior Supervisory Duties of a Thesis/Dissertation/or Major Project

Name	Degree	Project/Thesis Title	Status	Began	Completed
He, Yin	M.Sc.		Active	2007-3	
Bogart, Ben	M.Sc.		Active	2006-3	
Corness, Greg	Ph.D.	(2007-3 Interim)	Active	2006-1	
Motamedi, Nima	M.A.		Active	2006-1	
Mateesco, Alex	M.A.	(2007-3 Interim)	Active	2003-1	
Lovell, Robb	Ph.D.Sp.		Active	2002-3	

Serving on a Committee of a Thesis/Dissertation/or Major Project

Name	Degree	Project/Thesis Title	Status	Began	Completed
Corness, Gregory	Ph.D.	(2006-1 to 2007-2)	Active	2006-1	
Hsueh, Jia Wei	M.A.		Active	2006-1	
Johnston, David	M.Sc.		Completed	2006-1	2007-2
Seo, Jinsil	Ph.D.		Active	2006-1	
Burgoyne, Diana	Ph.D.Sp.		Active	2002-3	
Humphrey, Dennis	M.Ap.Sc.		Completed	2002-3	2007-1

Supervision of Teaching Assistants

Level	Name	Title	Course	Tutorials	Enrollment	Began	Completed
Masters	Nazanin	Interdisciplinary Design Studio	IAT402	1	48	2007-3	2007-3
Doctorate	Seo, Jinsil	Interdisciplinary Design Studio	IAT403	1	48	2007-3	2007-3
Doctorate	Seo, Jinsil	Wearing Technologies, Experience: Design Studio	IAT 422	2	45	2006-3	2006-3
Doctorate	Corness, Greg	Body Interface	IAT320	2	75	2006-1	2006-1
Masters	Hosseini, Malahat	Body Interface	IART331-IART333	2	30	2005-1	2005-1
Masters	Mateesco, Alex	Meta-Systems	IART410-IART412	2	81	2004-3	2004-3

Supervision of Research Personnel

October 2007 - Dec 2007

Part Time, Yin He, B.Sc, Research Assistant **Funded by:** Nokia; Wearable Technology Research and Design

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October 2007 - Dec 2007	Part Time, Nima Motamedi, B. Des (Bachelor of Design), Research Assistant Funded by: Nokia, Travel Grant to IEEE Tabletop, Research Tactile Table-Top Interaction
August 2007 - August 2007	Part Time, Ben Bogart, B.Sc, Research Assistant Funded by: Internal Research Grant; Travel to PD Conference to exhibit and present Master's Research
January 2007 - June 2007	Part Time, Nima Motamedi, B. Des (Bachelor of Design), Research Assistant Funded by: V2_lab Institute for the Unstable Media; Literature Review; Aesthetic Interaction for Tactile Interfaces; Travel to conferences
January 2007 - May 2007	Part Time, Mark Brady, M.Ap.Sc, Research Associate Funded by: V2_Lab Institute for the Unstable Media; British Columbia Arts Council Sound Designer and Sound Software Engineer for soft(n) tangible network and interactive art exhibition
October 2006 - May 2007	Part Time, Bonana Van Mil, B.F.A, Research Assistant Funded by: V2_Lab Institute for the Unstable Media passepourt project; British Columbia Arts Council Materials and Textile Design and Construction; fabrication of tactile 'hand-sewn' multi-touch fabric touch-pads for interaction
September 2006 - March 2007	Full Time, Rui Guerra, B.Sc, Research Assistant Funded by: V2_Lab Institute for the Unstable Media; passepourt project EU funding V2_Lab Residency; software engineering for network communication and emergent behavior for soft(n) tangible network and interactive art exhibition
January 2006 - March 2007	Part Time, Michiel KauwATjoe, B.Sc, Research Assistant Funded by: V2_Lab Institute for the Unstable Media; passepourt project EU funding V2_Lab Residency; software engineering for Gesture Recognition heuristics for Laban Effort/Shape Analysis for Tactile Recognition; designed and implemented for soft(n) tangible network and interactive art exhibition
January 2006 - March 2007	Part Time, Simon de Bakker, B.Sc, Research Associate Funded by: V2_Lab Institute for the Unstable Media; passepourt project EU funding V2_Lab Residency; hardware and electrical engineering for input multi-touch soft fabric input surface to enable Tactile Recognition; designed and implemented for the move.me research project which resulted in the design and implementation of soft(n) tangible network and interactive art exhibition
January 2006 - March 2007	Part Time, Stock, B.Sc, Research Associate Funded by: V2_Lab Institute for the Unstable Media; passepourt project EU funding V2_Lab Residency; hardware and electrical engineering for input multi-touch soft fabric input surface to enable Tactile Recognition; designed and implemented for the move.me research project which resulted in the design and implementation of soft(n) tangible network and interactive art exhibition
January 2004 - January 2007	Part Time, Gretchen Elsner, B.A, Research Assistant Funded by: Canada Council for the Arts; Heritage Canada CCO Network Fund; Canarie; British Columbia Arts Council; V2_Lab Institute for the Unstable Media Materials Designer; Garment and Clothing Designer and Seamstress for Between Bodies, Exhale and Move.Me

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- January 2003 - December 2006 Part Time, Jan Erkku, B.Sc, Research Assistant **Funded by:** Canarie; Canada Council for the Arts; V2_Lab for the Unstable Media; 'whisper' network electrical hardware engineering design and implementation; sensor and actuator construction and device programming
- May 2002 - July 2006 Part Time, Norman Jaffe, B.Sc, Research Associate **Funded by:** Canarie; Asi Tactex; Internal Research Funds; Heritage Canada Canada Culture On-line Network Funds; Nokia University Industry Development Grant Software Engineer; Micro-controller and network programming for whisper body area network; ASI Tactex multi-touch Controller device level software; PDA programming Canarie grant;
- September 2003 - March 2006 Part Time, Calvin Chow, M.Sc, Research Assistant **Funded by:** Canarie; Heritage Canada, CCO Network Fund; V2_Lab Institute for the Unstable Media Electrical Engineering Sensor and Actuator design and construction
- June 2003 - March 2006 Part Time, Sang Mah, M.Sc, Research Associate **Funded by:** Canarie; Canada Council for the Arts; CFI; Daniel Langlois Fondation; Heritage Canada CCO Network Fund; V2_Lab Institute for the Unstable Media; Nokia Executive Project Management and Creativity Consultant
- May 2002 - December 2005 Part Time, Camille Baker, M.Ap.Sc, Research Associate **Funded by:** Canarie; Canada Council for the Arts; Daniel Langlois Fondation; British Columbia Arts Council production supervisor; web design; video and digital photography documentation; workshop and methodology design; literature review
- May 2002 - December 2005 Part Time, Robb Lovell, M.Sc, Research Associate **Funded by:** Canarie; ASI Tactex; Internal Research Fund whisper network physiological data visualization programming; asi tactex -- tactile gesture recognition of laban effort qualities - software design and implementation; wireless network communication protocol and application programming
- January 2005 - August 2005 Part Time, Mark Brady, M.A, Research Associate **Funded by:** Canada Council for the Arts; Daniel Langlois Fondation; Canarie; Heritage Canada CCO Network Fund sound designer for exhale; software engineer
- September 2004 - August 2005 Part Time, Pablo Mochcovsky, B.Sc, Research Assistant **Funded by:** Canarie; Heritage Canada CCO Network Fund Electrical Engineering Sensor and Actuator design & construction for exhale
- September 2004 - January 2005 Part Time, Diana Burgoyne, M.F.A, Research Assistant **Funded by:** Heritage Canada CCO Network Fund Analog Sensor and Actuator design and construction for sound fabric wall and sensor testing for 'exhale'
- January 2004 - December 2004 Part Time, Alex Mateesco, B.F.A, Research Assistant **Funded by:** Canarie; Canada Council for the Arts; V2_Lab Institute for the Unstable Media web design and programming; process and sound documentation; literature review; production support
- May 2002 - June 2003 Part Time, Kristina Andersen, M.Sc, Research Associate **Funded by:** Canada Council for the Arts; British Columbia Arts Council; Future Physical UK; Daniel Langlois Fondation interaction designer; whisper workshops design methodology and interaction

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January 2003 - March 2003	Part Time, Brad Paras, B.A.Sc, Research Assistant Funded by: Canada Council for the Arts; Future Physical sensor input data testing
January 2003 - March 2003	Part Time, Joe Schuurman, B.A, Research Assistant Funded by: Canada Council for the Arts; Future Physical sensor input data testing
September 2002 - March 2003	Part Time, Carlos Vila Martinez, B.F.A, Research Assistant Funded by: Canada Council for the Arts; Future Physical ; V2_Lab Institute for the Unstable Media; Daniel Langlois Fondation Sensor input construction; data testing; visual design;
May 2002 - March 2003	Part Time, Grant Gregson, M.F.A, Research Assistant Funded by: Canada Council for the Arts; Future Physical; V2_Lab for the Unstable Media; Daniel Langlois Fondation Sensor input data testing; production manager
May 2002 - February 2003	Part Time, Diana Burgoyne, M.F.A, Research Assistant Funded by: Canada Council for the Arts; Daniel Langlois Fondation whisper electronic prototyping and testing; 'between bodies' electronic prototyping and testing
May 2002 - January 2003	Part Time, Stock, M.Sc, Research Associate Funded by: Canarie; Canada Council for the Arts; Daniel Langlois Fondation; V2_lab Institute for the Unstable Media; whisper micro-controller hardware design and implementation

New Course Preparation and Course Enhancement

2006	IAT 403, Interdisciplinary Design Studio, Graduate Capstone Project
2006	IAT 422, Wearing Technologies: Experience Design Studio, New Course, Delivered Fall 2006
2007	884, Graduate Special Topics: Skin, Clothes and Buildings, in Collaboration with Maia Engeli, New Course, Delivered Spring 2006
2005	IAT322, Performance and Media Arts, New Course, Delivered Fall 2005
2004	IART 410-4111-412, MetaSystems, Course Development and Enhancement, Delivered Fall 2004
2004	IART 407-408-409, Object Interaction, Course Development and Enhancement, in collaboration with Jim Budd, Delivered Spring 2004
2004	IART 833, Special Topics, Embodied Interaction, New Course, Delivered Fall 2003
2003	IART 328-329-330, Kinesthetic Space, Course Development and Enhancement, Delivered Spring 2003
2002	IART 407-408-409, Object Interaction, New Course, Delivered Fall 2002
2002	IART 600, Graduate Course, Media Practice and Theory, New Course, Delivered Fall 2002

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Teaching Other Institutions

Technical University of British Columbia (1998-2002) Interactive Arts Program. Founding Faculty member in the Interactive Arts Program at the Technical University of British Columbia, designed and developed core Interactive Arts Curriculum (in collaboration with Ron Wakkary), at TechBC. Teaching responsibilities included the design, development and delivery of new innovative curriculum in New Media Images, Moving Images (Video and Sound), Object Interaction, Body Interface, Kinesthetic Interaction, Programming Multimedia and others. This curriculum and the core courses that constituted its centre were the precursors to the SIAT program, and have seeded SIAT's development and evolution.

Emily Carr Institute of Art and Design (1994-1998) Design School – Communication Design Program – taught numerous courses in Communication Design. Teaching focus was on Interactive Communication Design Studios and Advanced Fine Arts Computers in the Media School. Taught Third and Fourth Year Design Studio Courses in Computer Interactivity. Supported a variety of software skills included MacroMind Director, Lingo, Adobe Premiere, After Effects, and other technical support skills. Supported many students in a concept, critique, development cycle that enabled them to augment their interactive and technical skills in the context of their design concepts and goals.

Emily Carr Institute of Art and Design (1991-1993) Electronic Communication Design Program – taught courses in Electronics Communication Design Studio for 3rd and 4th year curricula. Skills included Motion and Rendering in 3D Animation, Sound Design for Animation and Video. Supported Software skills in UNIX, SoftImage, Audio Recording, Mixing and Editing, Video Editing and Image Processing.

Simon Fraser University, School for Contemporary Arts, Summer Institute – Computed Arts Intensive (1993-1994) As Co-Director and Faculty Member, taught interactive performance design process (and included necessary computer applications). Hardware platforms included Silicon Graphics Indigo, Macintosh and Atari Labs. The focus of these workshops was to integrate performance and interactive technology, and included intensive creative design processes with movement, music, media such as video, sound and life-stage sensing to create interactive performance works.

International Workshops in Electronic and Multi-Media Computer Systems, particularly as related to Dance and Technology (1990-1994). As an invited lecturer, gave a number of workshops. An abbreviated list of Institutes follows: the Kodak Center for Creative Imagina, at IMEREC (the Institute Mediterranean Centre Research in Culture and Technology) in Marseille, France, at the European Centre for Technology and Dance in Pont-a-Mousson, France, at the Amsterdam Theatre Instituut of Nederland, ELIA, the European League of Institutes of the Arts in Berlin, Imagina, in Monte Carlo, NYU, Arizona State University, York University in Ontario, Canada, Institute for the Arts, Ohio State University ACCAD.

Siggraph '90, on the instructional team of a juried course “Human Figure Animation: Approaches and Applications”. Developed and presented two course segments” “Kinematic methods in figure animation” and “Animation for film and video”.

Simon Fraser University (1987-1990) Sessional Instructor in Contemporary Dance, School for the Contemporary Arts. Taught Contemporary Dance Technique, Dance Composition and Improvisation.

Douglas College (January 1981 – December 1991) As a Regular Full-Time Faculty Member in Computer Programming and Systems Technology at Douglas College, and Founder of the Program, participated in various college wide and departmental committees – researched, designed and developed course curriculum material for the new Computer Information Systems Diploma Programs. Taught courses in Systems Analysis, Computer Programming languages, including Pascal, PL/I, Fourth Generation Languages, Basic, Visual Basic, Data Base Principles, Hardware and Data Communications.

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Completed Works

Exhibitions

The Exhibitions category is divided into two sections: *Exhibited Artworks* and *Exhibition History*. *Exhibited Art Works* summarizes each Art Work and lists production credits. *Exhibition History* provides a date-ordered history of exhibition venues. This section includes: Art Work title, Exhibition title, Exhibition Dates, Curator, Principle Artist, and Exhibition Context such as gallery, festival, conference, solo or group showing.

Exhibited Artworks

(softⁿ) survival strategies for interaction, interactive public art installation, 2005 – 2007



Supported by V2_ Institute for the Unstable Media for premiere at the Dutch Electronic Arts Festival *DEAF07: interact or die*, Rotterdam, April 10th-29th 2007.
Project Dates: September 2005 to April 2007
Artist and Creative Concept: Thecla Schiphorst
Artist selected in International Call by V2; Competition conducted April 2005
V2_Lab Manager: Anne Nigten
Project Manager: Siuli Ko Pullan, V2_Lab
Hardware Design and Engineering, Stock, Simon De Bakker, V2_Lab
Software Design: Rui Guerra, Michiel KauwATjoe, V2_Lab
Software Tactile Gesture Recognition: Norman Jaffe, Aurel Systems
Physical Object Co-Design and Construction: Bonana van Mil, Fashion Designer
Sound Design: Mark Brady
Passepartout Academic Partner: Frank Nack, CWI, Centrum voor Wiskunde en Informatica
Passepartout Academic Partner: Lora Aroya, Eindhoven University of Technology
Funded by: Passepartout Project EU Dutch Consortium in conjunction with Philips Inc, TU/E, CWI, and V2_Institute for the Unstable Media

Description: *soft(n)* explores *intimacy* and *experience* through physical interaction with 10 networked soft objects that exhibit emerging behavior when touched or moved within a space. The network recognizes the *quality* of tactile and kinesthetic interaction, responding to *how* objects are touched or moved. Interaction with the soft objects elicits behaviors such as humming, shaking, sighing, singing and shared moving luminous patterns. Each soft object is hand constructed and contains a specially designed, hand-sewn and custom-engineered soft-intelligent-tactile input surface, motion detectors, and an ability to respond through vibration, light, and sound.

move.me, single-user interaction prototype for *soft(n)*, 2005 – 2006



Supported by V2_ Institute for the Unstable Media
Project Dates: September 2005 to April 2006
Artist and Creative Concept: Thecla Schiphorst
Production Credits: see *soft(n)* above

Description: *move.me* is the prototype system for *soft(n)* and the first phase user test scenario for the V2_Lab contribution to the Dutch EU Passepartout project. This initial proof of concept enabled iterative testing of hardware, software, fabric construction and user interaction. A single interactive cushion/pillow was designed to test ambient response and control within a home entertainment environment.

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exhale: breath between bodies, interactive wearable public art exhibition.



Principle Investigator: Thecla Schiphorst
Funding: Canarie, Heritage Canada, SFU President's Research Grant, Nokia
Project Dates: 2003 – 2005
In collaboration with *the whisper[s] research group*: <http://whisper.iat.sfu.ca>
Artistic Director, Concept, Systems Design: Thecla Schiphorst
Performance and Dramaturgical Design: Susan Kozel
Project Manager: Sang Mah
Software Engineering: Rob Lovell, Norm Jaffe
Hardware Engineering: Jan Erkuu, Calvin Chow
Fashion Design and Construction: Gretchen Elsner
Sound Design: Mark Brady
Production and Video: Camille Baker
Production Assistants: Alex Mateesco, Malahat Husseini
Web Design: Adam Marston

Description: *exhale: breath between bodies* continues the technological exploration initiated with <between bodies>. *Exhale* explores the empathic nature of networked breath. Networked breath is used to create output patterns through small vibrators sewn into the inside of the waistband, and speakers that are embedded in the lining of these sensually evocative skirts. This response enables a hidden and “inner” one-to-one communication between bodies in the installation, so that one body's breathing can directly affect another body's skirt. While individual data is represented inside the skirt, collective group-breath is made visible on the *exterior* layers of fabric on the skirts by using a specialized LED arrays that “light up” in a continuous cycle according to collective breath rhythm. Breath bands wrapped around the chest measure the ebb and flow of the breath cycle. Communication protocol was ported to Nokia Smart Phones.

<*between bodies*> ... wearables for the telepathically impaired, interactive wearable public art exhibition.



Principle Investigator: Thecla Schiphorst
Funding: Canarie, Heritage Canada, SFU Discovery Grant
Project Dates: 2003 – 2004
In collaboration with *the whisper[s] research group*: <http://whisper.iat.sfu.ca>
Artistic Director, Concept, Systems Design: Thecla Schiphorst
Performance Concept and Jewelry Design: Susan Kozel
Project Manager: Sang Mah
Software Engineering: Rob Lovell, Norm Jaffe
Hardware Engineering: Jan Erkuu, Calvin Chow
Fashion Design and Construction: Gretchen Elsner
Production and Video: Camille Baker
Web Design: Adam Marston

Description: <*between bodies*> the precursor to *exhale*, was the first interaction prototype exploring a wearable network of skirts. <*between bodies*> uses EMG sensors that detect muscle contraction sewn into garter belts worn beneath the skirts. The skirts respond to movement with small fans embedded in the lining. Small motors also respond to the detection of movement, some that move the exterior wall of the skirt fabric as if it is alive. The metaphor of the use of the skirt lining is the creation of an inner experience for the participant, non-visual but palpably physical. Toshiba PDA's were used in “Body Area Networks” situated in garments worn on the body.

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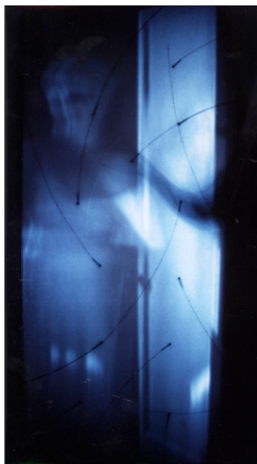
whisper: wearable body architectures, interactive wearable public art exhibition.



Principle Investigator: Thecla Schiphorst
Funding and Artist Collaborator: Susan Kozel
Funding: Daniel Langlois Fondation for the Arts, Canada Council for the Arts, BC Arts Council, V2_Lab and DEAF03, Future Physical | Shinkansen
Project Dates: 2001 – 2003
Artistic Concept, Systems Design: Thecla Schiphorst
Artistic Collaborator: Susan Kozel
Interaction Designer: Kristina Andersen
Project Manager: Sang Mah
Software Engineering: Rob Lovell, Norm Jaffe, Andruid Kerne, Stock (V2),
Mathematical Visualization: Julie Tolmie
Hardware Engineering: Stock, V2_Lab; Jan Erkuu, whisper[s] research group
Garment Design: Thecla Schiphorst, Kristina Andersen
Garment Construction: Kristina Andersen, Maryan Schiphorst-Meek
Production and Video: Camille Baker

Description: *whisper: wearable body architectures* was the first in a series of three interactive wearable public art installations that explore interaction with one's own body data. *whisper* is an acronym for [wearable, handheld, intimate, sensory, personal, expressive, responsive system], a term that is now used to describe the focus of the research group. The *whisper* installation is based on small wearable microcontrollers, and wireless network transmission using physiological data: heart rate and breath. Sensors are embedded in a soft white jacket-like garment with detachable sleeves, reminiscent of a hybrid kimono, pajama and smoking jacket constructed in a soft comforting fabric. Visualization and sonification of body data interaction is projected onto the floor in small "light pools". Participants can share data through specially designed snaps located on the jackets. Connection snaps are positioned to create playful and intimate movement interaction. Multiple participants can "snap together" to create group data-bodies and to engage with their output through their movement.

Felt Histories, Interactive Computer Video Art Installation



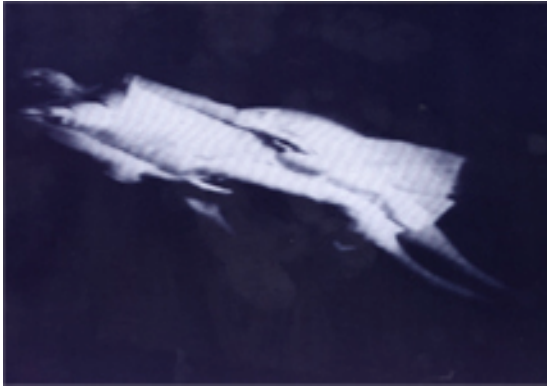
Principle Investigator, Artist: Thecla Schiphorst
Funding: Canada Council for the Arts, BC Arts Council
Project Dates: 1998 – 2000
Artistic Concept, Systems Design: Thecla Schiphorst
Software Engineering: Ken Gregory, Grant Gregson, Norm Jaffe
Sound Design: Ken Gregory
Hardware Engineering: Carlos Vela-Martinez
Sensor Wall Design: Ken Gregory, Carlos Vela_Martinez
Sensor Wall Construction: Carlos Vela-Martinez
Video Shoot Director: Thecla Schiphorst
Video Editing: Thecla Schiphorst
Woman in Door: Helena Schiphorst
Lighting: Grant Gregson
Production Assistant: Bernadette MacGregor
Documentation Video Editing: Lorna Boschmann

Description: *Felt Histories* is a networked computer interactive sound and video installation. It contains a specially designed tactile sensor surface embedded within a doorframe contained at the end of a 20 foot long corridor. The interface responds through the participants act of touch. Video and sound is mixed in real time through a networked computer system, and rear-projected through a plexiglass surface that is embedded with small piezo-sensors. Story fragments of an older woman are represented through projected video image and sound. She responds to the users touch (direction, pressure, area), engaging the user in various scenarios that occur at the threshold of the door-frame. The pace of the work is extended, sensual and attenuated.

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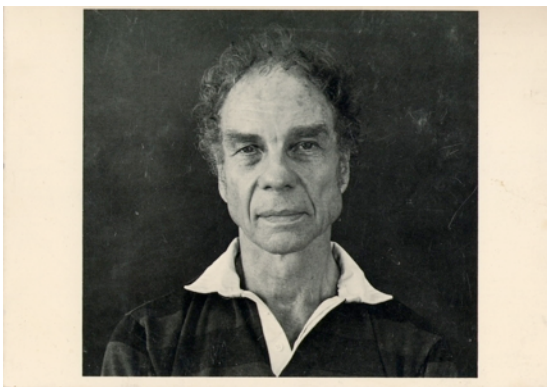
Bodymaps: artifacts of Touch, Interactive Computer Video Art Installation



Artist and Director: Thecla Schiphorst
Funding: Canada Council for the Arts, BC Arts Council
Project Dates: 1995 – 1997
Artistic Concept, Systems Design: Thecla Schiphorst
Software: Ken Gregory, Norm Jaffe, Grant Gregson,
Sound Design: Ken Gregory
Hardware Engineering: Infusion Systems
Table Design: Hanif Jan Mohammed
Table Construction: Ewan McNeil
Video Director and Video Editing: Thecla Schiphorst
Video Bodies: Thecla Schiphorst, Nathan Evans
Production Assistant: Bernadette MacGregor
Documentation Video Editing: Lorna Boschmann

Description: *Bodymaps: artifacts of Touch* is a computer interactive sound and video installation. The piece uses a specially designed sensor surface that is embedded beneath white velvet. Images are projected on the surface from above. Touch and proximity sensors detect a participant's presence and contact with the surface. The piece is silent until caressed. It responds to proximity and caress with movement and sound. The effect is sensual, disturbing, highly charged and openly affective. The intent of the work is to create a relationship between participant and technology that invokes a space of experience, reflection and vulnerability, a delicate balance that attempts to incite an awareness of one's relationship with oneself through the act of touch.

immerce, Interactive Interface to Merce Cunningham's Dance Database



Artist and Director: Thecla Schiphorst
Funding: Centre for Image and Sound Research (CISR)
Project Dates: 1993 – 1994
Artistic Concept, Systems Design: Thecla Schiphorst
Software: Stephen Hawryshko
Interaction Design: Thecla Schiphorst
Sound: John Cage
Choreography: Merce Cunningham
Video: Elliot Caplan
Executive Producer: Justine Bizzocchi
Cunningham Dance Archive: David Vaghuan
Cunningham Dance Foundation: Michael Bloom

Description: In *immerce* dance material is explored and navigated using an interface metaphor based in part on Merce Cunningham's choreographic methods and in the nature of dance, which structures movement over time. Cunningham's process deals complexity, the incorporation of chance procedures, the relatedness of space and time, and multiple points of reference. Its development explores artistic, technological and research possibilities for interaction between two partners: the participant, who explores the dance material, and the system, which organizes and presents the material. This prototype project is designed to reveal the scope of the Cunningham dance archive and the richness of Cunningham's dance material collected from over fifty years of making dance, and to provide a mechanism to support a deeper understanding of the nature of dance through Cunningham's work.

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Exhibition History

(softⁿ) *survival strategies for interaction*, interactive public art installation, **PICNIC'07**, Westergasfabriek Amsterdam, The Netherlands, September 25-29th 2007. *PICNIC* Dre Wapenaar, Tent village. Group Exhibition, Artist: Thecla Schiphorst, **PICNIC'07** <http://www.picnicnetwork.org/artefact-10370-en.html>

PICNIC'07: uncork your brain! was held in Amsterdam in the Westergasfabriek from September 25-29th 2007. **PICNIC'07** was a conference, festival and a week of fresh, creative, innovative ideas. At this leading international event, creative minds from the worlds of media, entertainment, science and the arts convened from 25th-29th September. PICNIC calls itself a seductive, exciting, intangible, unpredictable, cosmopolitan and cheerful annual event for and by the creative industry. PICNIC'07 is a leading event in Europe in relation to creativity and innovation, and a part of Cross-Media Week. *The theme of FEEL MAKE PLAY* included an invitation of 20 international artists to contribute to the PICNIC environment, to show their work, to comment on PICNIC as a meeting place, and to add to the unique PICNIC experience.

exhale: breath between bodies, interactive public art exhibition. National Academy of Sciences, *Speculative Data and the Creative Imaginary: shared visions between art and technology*, Washington D.C., June 4th – August 24th 2007. Curated by Pamela Jennings. Artist: Thecla Schiphorst in collaboration with *The whisper[s] Research Group*. Group Exhibition including Sheldon Brown, Christa Sommerer and Laurant Mignonneau, Nell Breyer and Jonathan Bachrach, Ernest Edmonds, George Legrady, Thecla Schiphorst. http://www7.nationalacademies.org/arts/Speculative_Data_and_the_Creative_Imaginary.html

(softⁿ) *survival strategies for interaction*, interactive public art installation, commissioned by V2_ Institute for the Unstable Media, for Dutch Electronic Arts Festival *DEAF07: interact or die*, Rotterdam, The Netherlands, April 10th-29th 2007. Group Exhibition, Artist: Thecla Schiphorst. DEAF07 Exhibition: http://www.deaf07.nl/index.php?option=com_program&act=project&Itemid=17 > soft(n)

The Dutch Electronic Arts Festival (DEAF) is an international and interdisciplinary biennial festival and conference that focuses on art, technology and society and is organized by V2_ Institute for the Unstable Media, in Rotterdam, The Netherlands. DEAF presents a wide range of programme segments, including a large exhibition of interactive artworks and installations. The festival is characterized by a thematic approach and brings current developments and themes emerging from art in technological culture to diverse audiences. DEAF is an important international festival focusing on art and media technology, and can be regarded as a showcase for research and production of new media art. Work exhibited at DEAF is in a group exhibition context. <http://www.deaf07.nl/>

Bodymaps: artifacts of Touch, interactive art installation. Media Art Exhibition: *Can We Fall in Love with a Machine?* Curated by Murray Horne and Claudia Hart; Wood Street Galleries, Pittsburgh, Pennsylvania, January 2006 – April 2006. Group Show: www.woodstreetgalleries.org/. Artist: Thecla Schiphorst

Can We Fall in Love with a Machine? is an interactive media arts exhibition exploring interactivity that responds to, or contextualizes affection, adoration and affect.

exhale: breath between bodies, interactive public art exhibition. Digifest Exhibition and Symposium, *Digifest: mods*, Toronto, Harbourfront Centre and Ontario Science Centre, May 9th – 15th 2006. Artist: Thecla Schiphorst in collaboration with *The whisper[s] Research Group* <http://www.ontariosciencecentre.ca/calendar/default.asp?eventid=486>

move.me smart objects + exhale: breath between bodies, interactive public art installation and demonstration. *Fleshing Out* Exhibition, Symposium + Workshop, V2_Lab, Rotterdam, The Netherlands, November 9th – 10th 2006. Artist and Principle Director for *exhale*: Thecla Schiphorst in collaboration with *The whisper[s] Research Group*. Artist and Principle Director for *move.me*: Thecla Schiphorst in collaboration with V2_Lab. <http://www.virtueelplatform.nl/article-3553-en.html> and <http://www.virtueelplatform.nl/artefact-3047-en.html>

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Fleshing Out Exhibition, Symposium and Workshop explored Wearable Interfaces, Smart Materials, and Living Fabrics. The exhibition was presented in parallel with the Symposium in order to demonstrate working prototypes in Art and Design Research. The event was part of a series produced by Virtueel Platform and V2_Institute for the Unstable Media exploring the public presentation of works in progress.

exhale: breath between bodies, interactive public art installation. *Emerging Technologies* and *Art Gallery* Exhibition, Siggraph 2005, Los Angeles Convention Center, July 31st - August 4th, 2005, Artist and Principle Director: Thecla Schiphorst in collaboration with *The whisper[s] Research Group*.
<http://www.siggraph.org/s2005/main.php?f=conference&p=etech&s=etech15> Group Exhibition.

Siggraph Emerging Technologies is an international exposition of new and emerging technology that highlights innovative applications and promising trends in digital technology. *exhale: breath between bodies* was one of three works at Siggraph 2005 selected for both the Emerging Technologies exhibition and the Siggraph Art Gallery, emphasizing artist-lead research producing technological innovation.

<*between bodies*>, interactive wearable public art presentation and exhibition, *New Forms Festival, Technography*, Vancouver, Roundhouse Centre, Oct 15-22 2004, Artist and Principle Director: Thecla Schiphorst in collaboration with Susan Kozel and *The whisper[s] Research Group*. Group Exhibition.

The New Forms Festival (NFF) is an international festival of contemporary media arts and technologies, held in Vancouver, BC, Canada. NFF showcases new media artists from across Canada and around the world, focusing on the convergence of arts and technology. <http://www.newformsfestival.com/nff04/>

<*between bodies*>, interactive wearable public art presentation and exhibition, *Ciberarts Festival*, Bilboa, Spain, Apr 20-30th 2004, exhibited as part of *The Evident Traces projects* curated by Christiane Paul (Whitney Museum). Artist and Principle Director: Thecla Schiphorst in collaboration with Susan Kozel and *The whisper[s] Research Group*. Group exhibition. Festival: http://www.ciberartfestival.net/instala_en.htm
About Exhibitions: <http://www.realtimearts.net/article/62/7506>

whisper: wearable body architectures, interactive wearable public art presentation and exhibition, *e-culture fair*, Paradiso Theatre, Amsterdam, The Netherlands, Oct 23-25 2003, Artist and Principle Director: Thecla Schiphorst in collaboration with Susan Kozel and *The whisper[s] Research Group*. Group exhibition.
http://www.e-culturefair.nl/site/index_en.html > projects > mymode

whisper: wearable body architectures, interactive wearable public art presentation and exhibition, *Respond Festival*, produced by *Future Physical*, Cambridge UK, April 2 – 6th 2003, curated by Ghislainne Boddington, Shinkansen and Lizzie Muller. Artist and Principle Director: Thecla Schiphorst in collaboration with Susan Kozel and *The whisper[s] Research Group*. Group Exhibition.
Respond Event: http://www.futurephysical.org/pages/content/resp_env/nex.html
Exhibition: <http://www.futurephysical.org/pages/programme/commissions.html> >co-productions >whisper

whisper: wearable body architectures, interactive wearable public art presentation and exhibition, Dutch Electronic Arts Festival, *DEAF03: Data Knitting*, Rotterdamse Schouwburg Theatre, Rotterdam, The Netherlands, Feb 23 – March 07 2003. Artist and Principle Director: Thecla Schiphorst in collaboration with Susan Kozel and *The whisper[s] Research Group*. Group exhibition. <http://www.deaf.v2.nl/03/>

The Dutch Electronic Arts Festival (DEAF) is an international and interdisciplinary biennial festival and conference that focuses on art, technology and society and is organized by V2_Institute for the Unstable Media, in Rotterdam, The Netherlands. DEAF presents a wide range of programme segments, including a large exhibition of interactive artworks and installations. The festival is characterized by a thematic approach and brings current developments and themes emerging from art in technological culture to diverse audiences. DEAF is an important international festival focusing on art and media technology, and can be regarded as a showcase for research and production of new media art. Work exhibited at DEAF is in a group exhibition context.

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Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, *Virtual Incarnations Dance Umbrella 2000 Exhibition*, ICA Gallery, London England, October – November 2000. Artist: Thecla Schiphorst. Group Exhibition with artists: Merce Cunningham, Paul Kaiser, David Rokeby, Thecla Schiphorst. See archive: <http://193.123.212.249/wwwselect.html>

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, Media Art Exhibition: *Touche*, McKenzie Art Gallery, Regina, March - May 2000. Curated by Nina Czegledy, Artist: Thecla Schiphorst. Group Exhibition: Daniel Joliffe and Thecla Schiphorst. Mackenzie Art Gallery Archives http://www.mackenzieartgallery.ca/Exhibitions/Exhibition_Archives/

Felt Histories, Interactive Computer Video Art Installation, Media Art Exhibition at Gaerlock Gardens, *Oakville Galleries*, Oakville Ontario, February - April 2000, curated by Su Ditta, Artist: Thecla Schiphorst. Solo Exhibition. Oakville Gallery Website: <http://www.oakvillegalleries.com>

Felt Histories, Interactive Computer Video Art Installation, Media Art Exhibition: 7th *New York Digital Salon*, SVA, School of Visual Arts, New York City, December 1999 - January 2000. Artist: Thecla Schiphorst. Group Exhibition. New York Digital Salon: <http://www.nydigitalsalon.org/> 7th New York Digital Salon Installations: <http://www.nydigitalsalon.org/07/installationFrames.html>

Felt Histories, Interactive Computer Video Art Installation, Media Art Exhibition: *Nouveau Cinéma, Nouveaux Médias*, Montreal, Quebec, October 1999. Curated by Alain Mongeau, Artist: Thecla Schiphorst. Group Exhibition.

The Festival du Nouveau Cinéma de Montréal (FNC) is devoted to the dissemination and development of emerging trends in cinema and new media. It is a forum for audiences to discover original new works, particularly in cinéma d'auteur and digital creation. The Festival's strength lies above all in the quality of its programming, which has evolved in step with trends in cinema and new media. http://www.nouveaucinema.ca/EN/index.php?module_b=corpo_nouvelles.php&module_a=corpo_historique.html&img=

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, Media Art Exhibition: *Digital Identity, Transforming Communities | Reinventing Ourselves*, Surrey Art Gallery, Surrey BC, Oct-Nov 1999, curated by Leane Davison. Artist: Thecla Schiphorst. Group Exhibition. <http://www.surrey.ca/Living+in+Surrey/Arts/Surrey+Art+Gallery/Exhibitions/Exhibition+History/Exhibition+History+Pages/1999.htm>

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, Media Art Exhibition: *Digital Matter, Digital Memory*, Kenderdine Gallery, Saskatoon, Saskatchewan, Apr 23 – June 6th 1999. Curated by Patricia Levin. Artist: Thecla Schiphorst: Solo Exhibition. <http://www.usask.ca/kenderdine/home.html> > exhibition > archive > 1999 > digital matter, digital memory

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, Media Art Exhibition: *Touche*, Oboro Gallery, Montreal, Quebec, March 6th - April 9th 1999. Curated by Nina Czegledy, Artist: Thecla Schiphorst. Group Exhibition: Daniel Joliffe and Thecla Schiphorst. http://www.oboro.net/index_2_e.html > oboro > archives > archives since 1993 > 1998-1999 > Daniel Joliffe and Thecla Schiphorst | <http://www.oboro.net/archive/9899.html>

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, Media Art Exhibition: *Touche*, Interaccess Gallery, Toronto, Ontario, January 22nd to February 17th 1999. Curated by Nina Czegledy, Artist: Thecla Schiphorst. Group Exhibition: Daniel Joliffe and Thecla Schiphorst, <http://www.interaccess.org/exhibitions/index.php?id=43>

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Felt Histories, Interactive Computer Video Art Installation, Media Art Exhibition: *Artspeak Gallery*, Vancouver, B.C., October 23rd to December 5th, 1998, curated by Susan Edelstein. Artist: Thecla Schiphorst. Solo Exhibition. <http://artspeak.ca/exhibitions/history.html> > 1998

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, Media Art Exhibition: *Body Mechanique: Artistic Explorations of Digital Realms*, Wexner Centre for the Arts, Columbus, Ohio, September 18th to January 6th, 1999. Curated by Sarah J. Rogers. Artist: Thecla Schiphorst. Group Exhibition including: Thecla Schiphorst, Beth Stryker/Sawad Brooks, Toni Dove, Merce Cunningham, Bill Seaman, Laurie Anderson, Jim Campbell, Alan Rath, Joseph Nechvatal. Wexner Center for the Arts website: <http://www.wexarts.org>

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, Media Art Exhibition: *The Interface: Edmonton Intermedia Arts Festival*, Latitude 53 Gallery, Edmonton, Alberta, August 23rd to September 5th, 1998. Artist: Thecla Schiphorst. Group Exhibition including artists Thecla Schiphorst, Ken Gregory, Lori Weidenhammer, Steve Heimbecker. <http://www.beams.ca/SeaofSound.htm>

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, Media Art Exhibition: *Cyberheart, Walter Phillips Gallery*, Banff, Alberta, May 29th to July 26th, 1998. Curated by Sara Diamond. Artist: Thecla Schiphorst. Group Exhibition including artists: Thecla Schiphorst, Heath Bunting, Jane Prophet, Catherine Richards, Josephine Starrs, Allecquere Stone, Natalie Jeremijenko. <http://www.banffcentre.ca/wpg/exhibitions/pre2001/> > Cyber Heart

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, Media Art Exhibition: *Ciber@rt Festival*, Valencia Spain, November 1998. Curated by Angela Molina. Artist: Thecla Schiphorst. Solo Exhibition. Ciberart History: <http://www.realtimearts.net/article/62/7506>

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, Media Art Exhibition: *Screens Festival*, Trondheim, Norway, October 5th to October 26th, 1998. Artist: Thecla Schiphorst. Group Exhibition including artists: Bill Viola, Thecla Schiphorst, Jane Prophet, Individual Electric, Graham Budgett, Ivar Smedstad, Birgitta Muhr.

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, Media Art Exhibition: *Electric Garden*, Siggraph '97, Los Angeles, 3-8 August 1997. Artist: Thecla Schiphorst. Group Exhibition. including artists: Thecla Schiphorst. Siggraph '97 Electric Garden <http://www.siggraph.org/s97/conference/garden/> Electric Garden Bodymaps: <http://www.siggraph.org/s97/conference/garden/bodymaps.html>

Cartographie du corps [Bodymaps: Artifacts of Touch], Interactive Computer Video Art Installation, Media Art Exhibition: *Centre Culturel Canadien*, Paris, France, June 23rd to July 31st, August 15th to Sept 26th 1998, Curated by France Trepanier. Artist: Thecla Schiphorst. Solo Exhibition.

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, Media Art Exhibition: *Escaping Gravity, Video positive Festival*, FACT, Foundation for Art and Creative Technology, Open Eye Gallery, Liverpool, England, April 11th to May 6th 1997. Artist: Thecla Schiphorst. Group Exhibition including artists: Thecla Schiphorst, Gordon Bennett, Bill Viola, Jaap De Jonge, Dieter Kiessling, Julie Myers, Tony Oursler, Jon McCormack, Jane Prophet. Video Positive FACT Foundation for Arts and Creative Technology archive: http://www.fact.co.uk/whatson/archive/?group=3&parent=27&link_id=27

Bodymaps: Artifacts of Touch, Interactive Computer Video Art Installation, *Interaction '97, Toward the Expansion of Media Art*, IAMAS, Gifu, Japan, March to April, 1997. Curated by Itsuo Sakane. Artist: Thecla Schiphorst. Group Exhibition. including artists Laurent Mignonneau/Christine Sommerer, Myron Krueger, Thecla Schiphorst, ART+COM, Jeffrey Shaw, Masaki Fujihata, Jim Campbell. Curated by Itsuo Sakane. Interaction '97 <http://www.iamas.ac.jp/interaction/i97/welcome.html> Artists Exhibitions: <http://www.iamas.ac.jp/interaction/i97/artists.html>

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Bodymaps: Artifacts of Mortality, Interactive Computer Video Art Installation. Exhibition: *Ars Electronica, Memesis: The Future of Evolution*, Prix Ars Electronica Exhibition, Landesgalerie, Linz Austria, September 3rd to 22nd, 1996. Artist: Thecla Schiphorst. Group Exhibition including artists Thecla Schiphorst, Simon Penny/Jamieson Schulte, Graham Harwood, Masaki Fujihata, Scott Snibbe, Natalie Jeremijenko, Nancy Patterson, Luc Courchesne. Mimesis '96 <http://www.aec.at/www-ars/home.html>

Bodymaps: Artifacts of Mortality, Interactive Computer Video Art Installation, Media Art Exhibition: *Digital Investigations, Differential Space*, Western Front Gallery, March 19th – April 26th 1996. Curated by Petra Watson. Artist: Thecla Schiphorst. Solo Exhibition. The Western Front: <http://www.front.bc.ca/>
Past Exhibitions *Bodymaps: Artifacts of Mortality* <http://front.bc.ca/exhibitions/events/2944>

immerce, Interactive Computer Interactive CD-ROM, Database Exhibition: *il villaggio globale*, OVG incontri, omaggio a McLuen, in collaboration with l'Ambasciata del Canada. Triennale di Milano, June 1995.

Performances

For all works listed below choreography and/or movement design by Thecla Schiphorst

exhale: breath between bodies: Canada House Pavilion, Winter Olympics, Torino, Italy, Feb 18th 2006.
Developed and choreographed 8 dancers for an interactive performance of *exhale: breath between bodies* to illustrate and exemplify networked wearable technologies and Canadian technology and design innovation, presented during New Media B.C. exposition.

exhale: breath between bodies: FutureFashion, Pisa, Italy, May 20th, 2006. Choreographed, Rehearsed and Developed choreography with 6 dancers for an interactive performance of *exhale: breath between bodies*. This performance was developed in the context of new interactive fashion that is integrating technology, communication and expressivity through smart textiles, soft circuits and urban design.
<http://www.cutecircuit.com/now/futurefashion-catalog/>

exhale: breath between bodies: Light Lantern Festival, September 17 2005, Shadbolt Centre for the Arts, Public Dreams Productions, included choreography, performance and working prototypes of interactive garment designs in context of light festival,
http://www.city.burnaby.bc.ca/cityhall/departments/departments_parks/prksrc_felts/prksrc_felts_shdbl.html

exhale: breath between bodies: CyberFasion Show Wired Woman, Vancouver October 2005, "What Wired Woman Wear", interactive fashion event, included choreography, performance and working prototypes of interactive garment designs, <http://www.wiredwoman.com/>

exhale: breath between bodies: Cyber-Fashion Show Siggraph August 2005, as part exhibition and festival in the context of ACM Siggraph, included choreography, performance and working prototypes of interactive garment designs, <http://psymbiote.org/cyflash/2005/>

< *between bodies* > Cyber-Fashion Show Siggraph August 2004, as part exhibition and festival in the context of ACM Siggraph, included choreography, performance and working prototypes of interactive garment designs, <http://www.siggraph.org/s2004/conference/studio/fashion.php?pageID=conference>

Orpheus and Eurydice, Opera by CW Gluck, choreographed for production by the Vancouver Modern Baroque Opera Company, Feb 5 - 15, 1997, Vancouver East Cultural Centre

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Powers of Two, Choreographed and Danced in Multi-Media Music Theatre Piece commissioned by Computer Music Composer Barry Truax for the International Computer Music Conference (ICMC) at the Banff Centre September 4th. 5th 1995.

16 Pools, Western Front Lodge April 21st 1995, Interactive Computer Art Festival, Simon Fraser University Computed Art Intensive July 20, 21 1994, Interactive Performance Piece for two dancers and light activated space

Threshing, Dancing on the Edge Festival September 8 - 14 1993 choreographed and performed for dancer, wireless microphone and projected video in collaboration with Louis-Philippe Demers

Escape, CyberArts International, Pasadena California October 29,30, 1992, ISEA, Sydney Australia, November 13, 1992 (International Symposium on the Electronic Arts) The integrated multi-media performance work explored the interactive relationship between performer's movement, effects on lighting, sound, voice and image. The performer wearing a wireless microphone controlled lighting intensity, colour and trajectory, via voice and triggered events in collaboration with Louis-Philippe Demers. Choreographed and performed by Thecla Schiphorst

Viola, Shadow Project, Simon Fraser University, Studio II, August 1992, choreographed for interactive performance

Falling Bodies, The Halo Projects, integrated dance-video-projected virtual images performance, evening length dance performance, in conjunction with the FireHall Arts Centre, June 1991

Kopernicus, Opera by Claude Vivier, choreographed for production by the Vancouver New Music Society, Sept 28 thru October 6, 1990, Vancouver East Cultural Centre

Genevieve De Brabant (the Opera), choreography for work directed by Marc Diamond, music by Erik Satie, conducted by Owen Underhill, set design by Greg Snider, Erik Satie Opera and Interdisciplinary dance concert, Simon Fraser University Theatre, Jan 11-13 1990

Multi-Media

Portraits, for Piano a Numeros, piano piece for transduction, Thecla Schiphorst and Jocelyn Robert, Audio CD, 2002, invited collaboration between choreographer and composer: an exploration of Body State of movement captured through video, and mapped to electronic piano.

Curatorial Projects

Projects listed were curated by Thecla Schiphorst and Oliver Hockenhull, co-directors of the digital eARTh society, a non-profit digital arts organization.

ZDM, Zero Degree Monstrosities, digital eARTh, Festival and Symposium, Vancouver, BC, Canada, 2000

Ecstatic Data, digital eARTh, Canadian Media Exhibitions in London, Amsterdam, Stockholm, 1999

The New Materiality: pleasuring the immoderate senses, digital eARTH, daft festival, Vancouver, Mar-Apr 2000

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Making Electricity/Rethinking Revolution, premiered Western Front Lodge, the Lux Lounge, Rethinking Revolution Festival, March 1998, Vancouver, B.C., digital eARTh, 1998

Transverse Worlds, premiered Western Front Lodge, the Lux Cabaret, Body Electric Festival, Vancouver, B.C.

BodyElectric, Masaki Fujihata artist Exhibition, Science World, Vancouver BC, May 1996

The Ecology of Communications, premiered Western Front, the Lux, Vancouver Electronic Arts Festival

Publications

In all publications, co-authors are ordered based on contributions e.g. first author contributed more than the second co-author.

Chapters in Books

Schiphorst, T., "Soft, softer, softly: whispering between the lines", Book Chapter, *aRt+D: Research and Development in Art*, V2_Publishing, NAI Publishers, V2 June 2005, Rotterdam. ISBN 90-5662-389-3.

aRt&D: Research and Development in Art provides a unique insight in the art practice through essays in which artists write about their personal experiences, and develops a theoretical framework for these projects. The book contains contributions by the award-winning performance group Blast Theory, media artist Thecla Schiphorst, art critics Josephine Bosma and Rudolf Frieling, media theorist Andy Cameron, curators Mark Hansen and Inke Arns, philosopher Andrew Benjamin, and others. Timothy Druckrey, expert in this field, evaluates the importance of artistic research and development. *aRt&D* positions itself as a pioneering work: focuses on interdisciplinary research and development from an artistic perspective.

Schiphorst, T., "Body Interface, navigation sense and state space", *The Art of Programming*, Sonic Acts Dec 2002, Digital art music and education, Amsterdam Paradiso, pp. 48-55.

Refereed Publications

Schiphorst, T., "Body Matters: the Palpability of the Invisible Computer", *Leonardo*, Special Issue: Materials for Creativity, Accepted for Publication, In Press, Spring 2008.

Schiphorst, T., "Affectionate Computing: Can We Fall in Love with a Machine?", *MultiMedia Impact, IEEE Multimedia*, January – March 2006, pp 20 – 24.

Schiphorst, T., "Breath, skin and clothing: Using wearable technologies as an Interface into ourselves", *International Journal of Performance Arts and Digital Media*, PADM 2 (2) pp. 171-186, Intellect 2006.

Cunningham, M., Vaughan D., Schiphorst, T., Carolyn, B., Kuhn, L., "Four Key Discoveries: Merce Cunningham Dance Company at Fifty", *Theater*, Vol. 34, No 2, 2004, Yale School of Drama, pp 105-111.

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- Schiphorst, T. "Le mouvement assiste par ordinateur: Merce Cunningham", *Nouvelle De Danse, La Composition*, No. 36|37, 1998, ContreDanse, Bruxelles, Belgigique
- Schiphorst, T. "Hacking the Future Body: public girls, cyborg girls", *Catalogue Essay for Public Girls Exhibition*, Curator Antonia Hirsch, artist Odette LeBlanc, Dec. 1997
- Schiphorst, T. "Body Noise, Subtexts of Computers and Dance" *Computer Graphics*, Volume 31, Number 1, Feb., 1997, A publication of ACM Siggraph, pp 14 -15
- Schiphorst, T. "Body Noise, Subtexts of Computers and Dance" reprinted in *Writings on Dance*, Volume 17, *Dance on Screen*, Summer 97/98, pp 70 -75
- Schiphorst, T. "Le Cyborg Dansant, Corps 'extraordinaires' ", *PUCK, La marionette et les autres arts, Images Virtuelles*, Editions Institut International de la Marionette, Paris, France, No. 9, 1997, pp 90 - 97
- Schiphorst, T. "Making Dances with a Computer", *Choreography and Dance: an international journal*, special issue: Merce Cunningham: Creative Elements in choreography and dance, edited by David Vaughan, Harwood Academic Publishers, Vol 4 part 3, 1997, pp 79 - 98.
- Schiphorst, T. "The Choreography Machine: A Design Tool For Character and Human Movement", *CyberArts: Exploring Art and Technology*, Miller Freeman Inc., Book Division, San Francisco, CA, 1992, pp 147-154.
- Calvert, T., Welman, C., Gaudet, S., Schiphorst, T., Lee, C. "Composition of multiple figure sequences for dance and animation", *Visual Computer* (1991) Vol 7, Springer-Verlag, pp 114-121
- Schiphorst, T. "Computers and Dance: A Dancer's Perspective" *Conference Proceedings, Instituto Nacional de Belles Artes, Centro de Investigacion y Documentacion de la Danza, Mexico, December 1989*

Refereed Conference Proceedings

- Nack, F., Schiphorst, T., Obrenovic, Z., KauwATjoe, M, Bakker S., Rosillio, A., Aroya, L. "Pillows as Adaptive Interfaces in Ambient Environments", *HCM'07*, Augsburg, Germany, Sept 28, 2007, Pp 3-12.
- Schiphorst, T., Motamedi, N., "Applying An Aesthetic Framework of Touch for Table Top Interaction", *IEEE TableTop Interaction 2007 Proceesings*, Newport, Rhode Island, October 10-12, 2007. Pp 71-74.
- Schiphorst, T., "Really, Really, Small: The Palpability of the Invisible", *CC07, Creativity and Cognition Conference*, Washington, DC, June 13-15, 2007, pp. 298-301.
- Schiphorst, T., Frank Nack, Michiel KauwATjoe, Simon de Bakker, Stock, Lora Aroyo, Angel Perez Rosillio, Hielke Schut, Norm Jaffe, "Pillow Talk: Can We Afford Intimacy?", *TEI (2007), Tangible and Embedded Interfaces Conference*, February 15-18th 2007, Baton Rouge, Louisiana, pp. 23-30.
- Aroyo, L., Nack, F., Schiphorst, T., Schut T., and KauwATjoe, M. "Personalized Ambient Media Experience: move.me Case Study". *Conference on Intelligent User Interfaces (IUI) 2007*, Hawaii, Jan. 28th – 31, 2007, pp 298-301
- Schiphorst, T., Jaffe, N., Lovell, R., "Threads of Recognition: using Touch as Input wIth Directionally Conductive Fabric:", *altCHI, CHI 2005, CHI April 2005*, Portland, Oregon
- Schiphorst, T., Andersen, K., "Between Bodies: using Experience Modeling to Create Gestural Protocols for Physiological Data Transfer", *altCHI, CHI 2004, CHI April 2004*, Vienna

Thecla Schiphorst Curriculum Vitae

Associate Professor, School of Interactive Arts & Technology, Simon Fraser University

Wakkary, R., Schiphorst, T., Budd, J., "Cross Dressing and Border Crossings: Exploring Experience Models Across Disciplines", Extended Abstracts of ACM CHI 2004, April 2004, Vienna. Pp. 1709-1710

Schiphorst, T., Kozel, S., "pulp fashion | wearable archi[ves]tectures", proceedings, V2- anarchiving conference, Rotterdam, July 2002, <http://deaf.v2.nl/deaf/03/221-117-229-207-116-102-152-49-79-100-19-11-14-99-208-171.py> (online essay)

Schiphorst, T., Lovell, R., Jaffe, N., "Using a Gestural Interface Toolkit to Interact with a Dynamic Virtual Space", Extended Abstracts, ACMCHI 2002, April 2002, pp. 754-755.

Chen, T., Fels, S., Schiphorst, T., "FlowField: Investigating the Semantics of Caress", ACM SIGGRAPH 2002 conference abstracts and applications, Siggraph '02, P. 185.

Schiphorst, T., "Intentional Grammars", Cast01 // Living in Mixed Realities, Conf Proc, September 2001, <http://netzspannung.org/cat/servlet/CatServlet?cmd=netzkollektor&subCommand=showEntry&lang=de&entryId=41301>

Schiphorst, T., Fels, S.S., "Affect Space, Semantics of Caress", Cast01 // Living in Mixed Realities, Conference Proceedings, September 2001, <http://hct.ece.ubc.ca/publications/pdf/CAST01.pdf>

Schiphorst, T., Siggraph Panel, Siggraph 2001, panel moderator in *Designing Experience: collaborative spaces in art and design*, with Ron Wakkary, Susan Kozel, Steve DiPaola, Alice Mansell and Thecla Schiphorst

Cyr, D. Trevor-Smith, H. Schiphorst, T. Toth, K. (2001) "A Web-Enabled Case Study in Project Management", International Business Education & Technology, Conference Proceedings.

Schiphorst, T. "Le mouvement assiste par ordinateur: Merce Cunningham", Nouvelle De Danse, La Composition, No. 36|37 Periodique Semestrial, Automne - Hiver, 1998, ContreDanse, Bruxelles, Belgique

Schiphorst, T., Mah S., "The Electric Body Project", Siggraph'97 Visual Proceedings: The art and interdisciplinary programs of Siggraph '97, pp 199 – 200.

Schiphorst, T. "Bodymaps: Artifacts of Touch", Electric Garden, Siggraph'97 Visual Proceedings: The art and interdisciplinary programs of Siggraph '97, pp 72 – 73.

Schiphorst, T. "The Virtual Body Project: motion capture and the gestural approach", Connecticut College Symposium on Arts & Technology: March 1995, pp. 34-37.

Schiphorst, T. Mah S. "The Virtual Body Project", ISEA '95, International Symposium for Electronic Arts, Conference Proceedings Montreal, pp, 62-65.

Schiphorst T. "immerce: a visual database", ISEA '95, International Symposium for Electronic Arts, Conference Proceedings, Montreal, pp. 36-40.

Schiphorst, T. Mah S. "StillDancing: interacting inside the dance", CHI '94, Interactive Experience Conference Proceedings, April 1994, pp 61-62.

Schiphorst, T., Crawford, J., Demers, L.P. "The Shadow Project: Exploratory Workshop in Performance and Technology", Connecticut College Symposium on Arts and Technology, Conference Proc, 1993, pp. 20-26.

Calvert, T., Welman, C., Schiphorst, T., et. al. "The Evolution of an Interface for Choreographers", CHI '93, Chi Proceedings, Amsterdam, 1993, pp. 115-122.

Thecla Schiphorst Curriculum Vitae

Associate Professor, School of Interactive Arts & Technology, Simon Fraser University

Schiphorst, T., Calvert, T., Lee, C., Welman, S., Gaudet, S., "Tools for Interacting with the Creative Process of Composition", Proceedings of SIGCHI: Empowering People, CHI '90, pp. 167-174.

Exhibition Catalogues

Schiphorst, T., *exhale: breath between bodies*, National Academy of Sciences, in exhibition Catalogue of the *Speculative Data and the Creative Imaginary: shared visions between art and technology*, Curated by Pamela Jennings, July 2007.

Schiphorst, T., *exhale: (breath between bodies)*, in ACM Siggraph 2005 Emerging Technologies SIGGRAPH '05, July 2005, Article No. 6.

Schiphorst, T., *exhale: breath between bodies*, ACM SIGGRAPH 2005, in Juried Artists: Electronic Art and Animation Catalog, SIGGRAPH '05, pp. 62-63.

Schiphorst, T., *Bodymaps: Artifacts of Touch*, in exhibition Catalogue *Body Mecanique*. Published By: Wexner Center for the Arts ISBN: 1881390195 ISBN13: 9781881390190 Publication Date: 02/02/1999

Schiphorst, T., *Felt Histories*, exhibition Catalogue of *the Felt Histories*, Gaerlock Gardens, Oakville Galleries, Oakville Ontario, February - April 2000, curated by Su Ditta

Schiphorst, T., *Felt Histories*, in exhibition Catalogue of the 7th *New York Digital Salon*, SVA, School of Visual Arts, New York City.

Schiphorst, T., *Felt Histories*, in exhibition Catalogue of *Nouveau Cinéma, Nouveaux Médias*, Montreal, Quebec, Oct '99. Curated by Alain Mongeau.

Schiphorst, T., *Bodymaps: Artifacts of Touch*, in exhibition Catalogue of *Touche*, Interaccess Gallery, Toronto, Ontario, January 22nd to February 17th 1999. Curated by Nina Czegledy

Schiphorst, T., *Felt Histories*, in exhibition Catalogue of Thecla Schiphorst, *Felt Histories*, *Artspeak Gallery*, Vancouver, Oct 23rd to Dec 5th, 1998, curated by Susan Edelstein

Schiphorst, T., *Bodymaps: Artifacts of Touch*, in exhibition Catalogue of *Escaping Gravity, Video positive Festival*, FACT Open Eye Gallery, Liverpool, England, April 11th to May 6th 1997

Schiphorst, T., *Bodymaps: Artifacts of Touch*, in exhibition Catalogue of *Interaction '97, Toward the Expansion of Media Art*, IAMAS, Gifu, Japan, March to April, 1997. Curated by Itsuo Sakane.

Schiphorst, T., *Bodymaps: Artifacts of Mortality*, in exhibition Catalogue of *Ars Electronica, Memesis: The Future of Evolution*, Prix Ars Electronica Exhibition, Landesgalerie, Linz Austria, Sept 3rd to 22nd, 1996.

Schiphorst, T., *Bodymaps: Artifacts of Mortality*, in exhibition Catalogue of *Digital Investigations, Differential Space*, Western Front Gallery, March 19th – April 26th 1996. Curated by Petra Watson

Selected Reviews

HorizonZero: Digital Arts and Culture in Canada, Issue 04: TOUCH, November 2002, "Artifacts of Touch: Thecla Schiphorst re-choreographs the relationship between technology and the public body", by Jeanne Randolph; <http://www.horizonzero.ca/textsite/touch.php?is=4&file=10&tlang=0>

HorizonZero: Digital Arts and Culture in Canada, Issue 04: TOUCH, November 2002, "Bodymaps, Thecla Schiphorst", by Eric Raymond; <http://www.horizonzero.ca/textsite/touch.php?is=4&file=9&tlang=0>
MUSE, Canadian Museums Association, "On the Questions of Musium Practices and New Technologies: reading Walter Benjamin through the digital lens", by Dot Tuer, XVIII/2

Thecla Schiphorst Curriculum Vitae

Associate Professor, School of Interactive Arts & Technology, Simon Fraser University

BackFlash, Canadian Journal of Photo-based and Electronic Art Production, Vol 17.1, "Felt Histories", 1999
Wired, October 1996 "LifeForm", pp 172 - 173, by Evantheia Schibsted
The Independent, Film and Video Review, "Thecla Schiphorst, Multimedia Artist", by Margaret Gallagher, December 1996
The Guardian, April 17 1997, London England, "Beats Watching TV", R. Clark
Vancouver Sun, March 1996, "Caressing Electronic Bodymaps a contemplative experience", by Michael Scott
Canadian Theatre Review, "Interactive Media: Virtual Reality and the Actual Performer", Winter 1994, Steven Aitken
Preview, Bodymaps, Mix Magazine, Issue 17, Summer 1996
El Mundo Cultural, Spain, Ciber@rt, October 28 1996
Mercado Laboral, Spain, Ciber@rt, October 6th, 1996
PBS, Scientific American Frontiers, *Walking After Midnight*, The making of animation: Dec 4 1992
CNN Interview: The World Today, *Science and Technology Report*, March 1991
BBC Interview: *The Late Show*, with Merce Cunningham, aired August 1992
CBC Newsworld Interview: *Ideas On Camera, Dance and the Computer*, Thecla Schiphorst interviewed by Max Allen, aired January 1992
TV Ontario, Art Effects: *Choreographic Innovation* aired December 1991
CBC Newsworld Panel Interview: *Computers and the Arts*, November 1991
CBC Radio *The Arts Report* New York CBC, premier of Trackers, March 1991

Presentations

Presentations or Workshops Refereed

Ascott, R., Cos, D., Dolinsky, M., Gromala, D., Novak, M., Rogala, M., Schiphorst, T., Slattery, D., Vesna, V., "Artist Round Tables", ACM SIGGRAPH 2004 Art Gallery, SIGGRAPH '04, August '04, pp. 131-134.
Jeremijenko, N., Schiphorst, T., Mateus, M., Straus, W., Wright, W., Kerne, A., Siggraph Panel, "Extending interface practice: an ecosystem approach", ACM Siggraph 2002 abstracts, pp. 90-92.
New Bodies, New Realities, Live Chat Room, Dance Umbrella 2000, October 2000, live webcast event with Thecla Schiphorst, Merce Cunningham, Paul Kaiser, Shelley Eshkar, Wayne McGregor; moderated by Ghislainne Boddington
Schiphorst, T. "Haunting and Hacking, the future body", 6CYBERCONF, Conference on CyberCulture and Technology, Oslo Norway, June '96

Presentations Invited 2007 - 2006

Presenter	SIAT Showcase, Sept 26 – Oct 2007, Room 3400 Simon Fraser University, Surrey
Invited Keynote	Creativity and Cognition, 2007, Washington DC, July 12-15, 2007
Invited Speaker	Dutch Electronic Arts Festival DEAF07, Rotterdam, April 2007
Invited Keynote	NTA National Textiles Association, February 2007, South Carolina
Invited Presenter	Dancing Around Technology, V2_Lab Open Process Workshops, February 2007
Invited Lecture	Smart Fabrics Europe Conference, December 12-15 th 2006, Edinburgh, Scotland.
Invited Presenter	Fleshing Out, V2_, November 22-23 2006, Rotterdam, Amsterdam
Invited Presenter	ITEA Passepartout Technical Demonstrations, Paris, Oct 11-14 th , 2006.
Invited Lecture	Smart Fabrics Conference, Intertech, March 2006, Miami
Invited Lecture	Digifest 2006, May 10-15 th , 2006, Toronto, Ontario Science Centre
Invited Presentation	Smart Fabrics Europe, Invited Lecture and Presentation, December 2006

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Presentations Invited 2005

- Invited Presentation Nokia University Research Collaborations workshop; presentation: move.me project, Dec 15th 2005, Nokia Vancouver
- Invited Presentation V2 research project presentation, October 17th-18th, research meetings, European partner, <passepourt> project
- Invited Presentation Digital Cultures Workshop and Lab, Nottingham England, University of Trent at Nottingham, workshop participant, conference presenter, November 27th – Dec 4th 2005.
- Invited Presentation V2 research project presentation, Dec 5th 2005, research meetings, European partner, <passepourt> project
- Invited Presentation Banff, Bodies In Motion Seminar, June 24th – 27th 2005, research presentation, whisper[s] project
- Invited Presentation ASU Flexible Fabrics Research Presentation, ASU, June 2005
- Invited Presentation Canada Japan Culture New Media Days, New Media Exchange, Nagoya Expo, June 4-8, 2005, Japan Canada, Invited to represent Canada New Media Research, sponsored by Heritage Canada

Presentations Invited 2004

- Invited Presentation Consciousness Reframed Conference, Beijing, China, November 22-28th 2004
- Invited Presentation Hexagram, Research visit and presentation, Concordia University and Thought Technology Inc, Oct 16-18th 2004
- Invited Panel Presentation New Forms Festival, October 14-16th 2004
- Invited Lecture Venice Biennale, Dance and Technology Symposium and Performances, June 2004
- Workshop Presentation Workshop Presentation, SigCHI 2004 Vienna, Austria, Workshop, “Cross Dressing and Border Crossings”, CHI Workshop, ACMCHI 2004, April 2004, Vienna
- Invited Participant SFU President’s Research Lunch with Industry, January 2004.

Presentations Invited 2003

- Invited Speaker Banff wireless workshop, Invited Speaker, Banff New Media Institute, “A case history of the whisper project”, November 14 – 16th, 2003
- Invited Speaker e-culture fair, Amsterdam, Wearable Technologies, sensory tools and performance, Oct. 23rd 2003, with Thecla Schiphorst (whisper), Joey Ryan, Institute of Sonology, STEIM, Jussi Angelsleve, Media Lab Europe
- Invited Speaker RISQ2003-Canarie ANW2003, Networks for People: Accessibility > Performance > Results > Conference Montreal, “whisper: networking wearable community architectures”, Oct 20-23, 2003,
- Invited Panelist Merce Cunningham, The Four Discoveries, Presenter, Panelist, “Merce Cunningham’s process with LifeForms, computer dance technology” BAM, Brooklyn Academy of Music, New York, Oct 18th 2003
- Workshop Participant Workshop on Experiential Telepresence, Oct 7th 2003, ACM Multimedia Conference, SIGMM2003, Berkeley California, Oct 2-8 2003
- Workshop Participant Biometrics Methods and Applications Workshop, ACM Multimedia Conference, SIGMM2003, Berkeley California, Oct 2-8 2003
- Invited Speaker V2 – Waag Symposium, “whisper: wearable body architectures”, Den Haag, The Netherlands, September 4 – 6 2003
- Invited Speaker NewForms Festival, July 30 2003, Conference Roundtable, “whisper: wearable body architectures”
- Invited Speaker Consciousness Reframed, Newport, University of Wales, “Wearing our<elves>”, July 4-6 2003

Thecla Schiphorst Curriculum Vitae

Associate Professor, School of Interactive Arts & Technology, Simon Fraser University

Invited Speaker	Nomadic Arts and Technology Conference, “BodyState: building our technologies through attention modeling”, Zurich April 15-17 2003
Invited Speaker	Venice Biennale, Conference on Dance and Technology, “Movement architectures: the dancing body within the machine”, May 8-10 th 2003
Invited Speaker	Future Physical, invited presenter, Respond Festival and Conference, Cambridge, UK, April 1-5 th 2003
Invited Panelist	DEAF festival, Data Knitting, Women and Technology, Mar7th 2003

Presentations Invited 2002

Keynote Address	Wear Me! Conference and Festival, Norfolk, England, produced by Future Physical, Dec 5 2002
Juried Presenter	Bridges II, The Banff New Media Institute, October 4 – 6, 2002, Collaboration and Our Bodies
Invited Presenter	BEAP, The Biennale of Electronic Arts, Perth University, Artist Talk, August 6 th 2002
Invited Presenter	Consciousness Reframed 2002: non-local, non-linear, non-ordinary, John Curtin Gallery, Curtin University of Technology, Perth, Western Australia, August 2-4 th 2002
Juried Panelist	Siggraph 2002, Panel: Extending Interface Practice, an ecosystem approach
Invited Panelist	Theatre, Gender and Beyond, London, England SmartLab, Jul7-8 th 2002
Invited Speaker	V2-Lab, Seminar, V2- anarchiving conference, Pulp Fashion, Jul5 th 2002
Invited Speaker	Intimate Technologies, Banff Summit, Banff Centre for the Arts, April 25-28 2002
Juried Workshop	Workshop on Physiological Computing, CHI2002, Minneapolis, Workshop Participant
Invited Panelist	The Uncanny, Experiments in Cyborg Culture: reading the Cyborg, artist’s panel, Vancouver Art Gallery, February 2002

Presentations Invited 2001 - 1999

Invited Speaker	The Art of Software, Sonic Arts festival and Conference, Amsterdam, December 2001
Invited Speaker	9-11-N2N Networks to Nanosystems: Art, Science and Technology in Times of Crisis, UCLA, UC Santa Cruz, November 2001
Invited Speaker	Foundation Year Artist Talk, Emily Carr Institute of Art and Design, August 2001
Invited Speaker	Extreme Computing, Conference, Barcelona, July 2001
Invited Speaker	e-naissance new configurations of Mind, Body, and Space Conference, Turino, Italy April 2001
Invited Speaker	Bridges Symposium, UCI, conference May 2001
Invited Speaker	ISEA, Paris, December 2000
Invited Speaker	Reframing Consciousness, University of Wales, August 2000
Invited Speaker	Interactive F[r]ictions, Narrative and the New Cinema, UCLA, May 2000
Invited Lecturer	Workshop Leader, Future Physical, Middlesex University, London, UK, September 1999
Invited Speaker	Emotional Computing, Banff Summit, Banff Centre for the Arts, March 1999

Presentations Invited 1998

Invited Speaker	Out of the Box, Banff Summit, Banff Centre for the Arts, September 1998
Invited Artist Presenter	Interactive Screen, Banff Summit, Banff Centre for the Arts, August 1998
Invited Speaker	8Cyberconf, Budapest, Hungary, <i>Connected Feminist Weirdness</i> , July 1998. Presenters included: Sandy Stone, Thecla Schiphorst, Kathy Rae Huffman, Sheila Urbanowski, Sally Jane Norman, Douglas Ruskoff
Invited Speaker	Avatar, Avatar!, Banff Summit, Banff Centre for the Arts, July 1998
Invited Speaker	Curating & Conserving New Media, Symposium & Workshop, Banff Arts, June 1998
Invited Panelist	Made In Corpus, Odysud, March 1998, panelist in symposium <i>Les Métamorphoses du Corps: Figures Virtuelles, Clones et Chimères</i> . Presenters included Susan Kozel, Paul Virillio, Louis Bec, Thecla Schiphorst

Thecla Schiphorst Curriculum Vitae

Associate Professor, School of Interactive Arts & Technology, Simon Fraser University

Presentations Invited 1997

Invited Speaker	Ciber@rt Symposium, Valencia, Spain, Nov1997, directed by Angela Molina, Presenters included: Thecla Schiphorst, Wolfgang Strauss, Derrick De Kerchove, Malcolm Le Grice, Louis Bec
Invited Speaker	Beyond the Screen, Digital Dancing 1997, London, November 2nd 1997
Invited Presenter	Space.City <i>Surrogate Bodies</i> Presentation, October 1997, Seattle Art Gallery, Seattle, Washington. Presenters included: Thecla Schiphorst, Diane Gromala
Invited Speaker	Out of the Box, Banff Summit, Banff Centre for the Arts, September 1997
Invited Panelist	Screen Festival and Workshops, Trodheim, Norway, October 1997
Invited Speaker	Artist Talk, Paris, June 1997, Canadian Cultural Centre of New Media
Invited Speaker	Video Positive, Festival and Symposium, Liverpool, England, artist talk April 1997
Invited Panelist	Interaction '97, Ogaki City, Japan, March 1997, New Technologies and Interactivity, Artist Panel

Presentations Invited 1996 - 1995

Invited Panelist	Future Moves 96, DEAF Symposium and Festival, Rotterdam, September 23rd 1996
Invited Speaker	6Cyberconf, Oslo Norway, June 1997, <i>Hacking the Future Body</i>
Invited Speaker	ISEA, International Symposium for the Electronic Arts, Montreal, Que, Sept 1995
Invited Speaker	5cyberconf, Madrid, Spain, June 1996, <i>Bodymaps, synesthesia and interaction</i> , Presenters included: Sandy Stone, Manuel De Landa, Timothy Druckery, Sally Jane Norman, Heidi Gilpen, Thecla Schiphorst
Invited Speaker	Connected Bodies, Amsterdam, June 1996, <i>Re-connecting our virtual selves</i>
Invited Speaker	New York University, Performance Studies Department, April 1995
Invited Keynote	Being Human Series, Apres Coup, New York Psychoanalytic Society, <i>Bodies in Technology</i> , New York School of the Visual Arts, February 1995
Invited Speaker	York University, Third Annual Conference on Dance & Technology, May 1995
Invited Speaker	<i>il villaggio globale</i> , OVG incontri, ommaggio a McLuen, in collaboration with l'Ambasciata del Canada. Triennale di Milano, June 1995

Presentations Invited 1994 - 1990

Invited Speaker	Charleroi Belgium, Festival, <i>Corps et Machina</i> April 1994. Presenters included Sally Jane Norman, David Rokeby, Stellarc, Derrick De Kerchove, Thecla Schiphorst
Invited Speaker	Amsterdam, Nederlands Theater Instituut, June 21 - 23 1994
Invited Lecture	IVirtu lecture series, Excellence in Design, HarbourCentre, Toronto, October 1991
Invited Speaker	University of Waterloo, Department of Architecture, <i>Gesture and Space</i> , October 1991
Invited Speaker	CETECH, Paris, European Colloquium on Culture, Economics and Technology November 1989
Invited Speaker	WINDOWS conference on Women in Computing Technology, UBC, Computing Science Department, Sept 1990

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Associate Professor, School of Interactive Arts & Technology, Simon Fraser University

Awards, Honors and Scholarships

- 2006 **Title:** CTIA Honorable Mention Fashion and Futures **Type:** Research
Organization: CTIA
Details: Honorable Mention Awarded for contribution to Research in Wearable Technologies
- 2006 **Title:** ITEA Best Demonstration **Type:** Research
Organization: Philips, Inc, The Netherlands
Details: Best Technical Demonstration at the ITEA, Paris Symposium
- 1998 **Title:** PetroCanada Award in New Media for Innovation in New Media Technologies **Type:** Research,
Organization: Canada Council for the Arts
Details: Awarded Biennially to a Canadian Artist for their contribution to Research and Development in New Media Technologies in the context of Artistic Practice, Awarded for achievements and cross-disciplinary approach to interactive art, dance, computer science and video. <http://www.canadacouncil.ca/news/releases/1999/qx127243889223906250.htm>
- 1997 **Title:** Honorable Mention Media Arts Interface Award for 'immerce' Interactive Exploration of Movement Database **Type:** Design
Organization: Paris, France
Details: Awarded for CD-Web Based Interface 'immerce' exploring navigation through movement data-base based on Merce Cunningham's choreographic strategies.
- 1997 **Title:** Design School Distinction for Teaching Award **Type:** Teaching
Organization: Emily Carr Institute of Art and Design
Details: Awarded by the Dean of the Design School for excellence in teaching based on student projects, reviews and assessment through the School of Design at Emily Carr Institute of Art and Design
- 1996 **Title:** International Digital Media Award (IDMA) for Best Interface **Type:** Design
Organization: IDMA - Canada
Details: This award was given to the Interactive CD-Rom/Web Based Interaction entitled "immerce" an exploration of research into navigation techniques of movement based on the archive of Merce Cunningham
- 1996 **Title:** International Digital Media Award (IDMA) Best Overall **Type:** Design
Organization: IDMA - Canada
Details: Best Overall in the Interaction Design Category for the Interactive CD-Rom/Web Based Interaction entitled "immerce" an exploration of navigation based on choreographic techniques accessing the dance archive of Merce Cunningham

Thecla Schiphorst Curriculum Vitae

Associate Professor, School of Interactive Arts & Technology, Simon Fraser University

- 1996 **Title:** International Digital Media Award (IDMA) People's Favorite **Type:** Design
Organization: IDMA - Canada
Details: The People's Favorite award for the Interaction Design Category for the Interactive CD-Rom/Web Based Interaction entitled "immerce" an exploration of navigation based on choreographic techniques accessing the dance archive of Merce Cunningham.
- 1996 **Title:** Graphex Design Award **Type:** Design
Organization: Graphex Design - Canada
Details: Graphics Design Award for the Interactive Category based on Screen Designs for Navigation for the Interactive CD-Rom/Web Based piece entitled "immerce" an exploration of an innovative navigation system based on choreographic techniques accessing the dance archive of Merce Cunningham
- 1996 **Title:** Selection for exhibition in 1996 Ars Electronica **Type:** Interactive Arts
Organization: Ars Electronica
Details: Selected for International Interactive Arts Exhibition, Ars Electronica 1996
- 1976 **Title:** Academic Scholarship **Type:** Scholarship
Organization: DPMA - Data Processing Management Association of British Columbia
Details: Awarded for Academic Achievement - Graduation Award British Columbia Institute of Technology Computer Programming and Systems Analysis
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Research Project Funding

SSHRC CURA-LOI, "Mobile Offerings: Collaborating with Community to Develop Storyspaces for Interactive Performance", Community University Research Alliance: SIAT Research Faculty Vancouver Opera, The Vancouver Dance Centre, Credo Interactive, and New Media BC, \$988,000 over 5 years, 2008 – 2012, Principle Investigator, Submitted, Under Review

Nokia Industry University Collaboration Grant, prototyping mobile games spaces for opera performance, \$10,000 January 2008 – June 2008, Principle Investigator, Submitted, Under Review.

Mobile Muse, "Opera that Speaks to the World: Moving Stories", development of interactive performance for mobile communities in development with Vancouver Opera. \$405,000 over 2 years, PI, Submitted, Under Review

SSHRC, Standard Research Grant, "Social Fabrics: The Design of Empathy In Wearable Technologies Networks", \$240,000 over 3 years, 2008-2011, Principle Investigator, Submitted under Review

SSHRC, Image, Text, Sound and Technology, "Aesthetics of Interaction in Social Spaces", \$50,000 over 1 year, 2008, Co-Applicant (with Principle Investigator Diane Gromala), Submitted Under Review

Passepartout, in conjunction with V2_Lab in Rotterdam, Phillips, CWI and Tue for V2_Art and Design Portion \$100,000 for DEAF07 festival: interact or die June 2005 – July 2007, Principle Artistic Director + Investigator

Thecla Schiphorst Curriculum Vitae

Associate Professor, School of Interactive Arts & Technology, Simon Fraser University

Nokia Industry University Collaboration Grant, for the development of smart phone technologies for wearable garments and interaction \$15,000 January 2006 – December 2006, Principle Investigator

SFU President's Research Grant April 2005 – March 2007 Design and development of Smart Textiles in Mobile Applications \$10,000, Principle Investigator

Heritage Canada, Networks Grant, for Pulp Fashion, part of the Am-I-Able Network Grant with Interactivity Lab at School of Interactive Arts and Technology, SFU, Banff Centre for the Arts, and Concordia University, Project Amount for Pulp Fashion: \$97,000 (co-applicant portion of full grant)

SFU Discovery Parks SSHRC Fund November 2004 to December 2006, Development of performance systems for mobile platforms and interaction using gestural input, \$10,000, Principle Investigator

Canarie, ARIM Fund for networked application project entitled "whisper[s]: networked community architectures" to research wireless connectivity in social applications based in art installation prototyping, January 2003 – April 2004, funded research and development of production installation <between bodies> exhibition premiere in Bilbao, Spain in April 2004. \$200,000, Principle Investigator

Canada Council for the Arts, Media Arts Individual Artist Production Grant, for the development and exhibition of whisper: wearable body architectures for the Dutch Electronic Arts Festival in Rotterdam exhibition date February 2003. Grant funded 2002, amount: \$60,000

British Columbia Arts Media Arts Senior Artist Production Grant, for the development and exhibition of whisper: wearable body architectures for the Dutch Electronic Arts Festival in Rotterdam exhibition date February 2003. Grant funded 2002, amount: \$20,000

Canada Council, Residency Program Grant through V2-labs, Rotterdam, The Netherlands, \$30,000 residency program for a research residency at V2-labs in Rotterdam to develop research and concepts prior to the Dutch Electronic Arts Festival funded amount \$30,000

Daniel Langlois Fondation Artist Grant, for the research , development and production of whisper: wearable body architectures for the Dutch Electronic Arts Festival in Rotterdam exhibition date February 2003. Grant funded 2002, \$40,000

Canadian Foundation for Innovation - CFI Infrastructure Grant , Interactivity Lab, School of Interactive Arts and Technology, Simon Fraser University; \$550,000. Principle Investigator

British Columbia Knowledge Development Fund, provincial matching funds for CFI Infrastructure Grant, Interactivity Lab, School of Interactive Arts and Technology, Simon Fraser University; \$550,000, Principle Investigator

New Media Innovation Center, Virtual Environments Research Grant, "intentional grammars: building tools for modeling a semantics of caress", June 2001 - September 2002, applying Tactex gestural interface to virtual interface environment. \$30,000, Principle Investigator

ASI Strategic University Collaborative Research Grant, Token Spaces, with Tactex Controls, and University Collaborator, Dr. Sidney Fels, UBC Dept Electrical and Computer Engineering, June 2001 - June 2003, to explore gestural recognition and interaction of touch based on Laban Effort Shape Movement Analysis for application to wearable technologies, \$140,000, Principle Investigator

SSHRC, INE grant "e-loyalty through experience design", \$268,000, 2000 – 2003, Principle Investigator Diane Cyr, SFU, Co-Investigator: Thecla Schiphorst.

Thecla Schiphorst Curriculum Vitae

Associate Professor, School of Interactive Arts & Technology, Simon Fraser University

Canada Council Presentation Distribution Grant for digital eARTh, curatorial grant for the Zero Degree Monstrosities festival and symposium, 2000, \$24K

Canada Council Research Grant in Media Arts; Title: “mindblindness” for research in developing concepts in <wearables for the telepathically impaired> which was the precursor research for what became the whisper research group , November 1999 \$30K

Canada Council Travel Grant: for presentation at Cyberconf8, Budapest Hungary, 1999, \$1000

Canada Council Presentation Distribution Grant for digital eARTh, curatorial grant for the New Materiality: pleasuring the immoderate senses, 1998, \$16K

BC Arts Council: New Media Grant for Video Production for Felt Histories: an interactive computer based installation using touch and motor control systems, 1997, \$10K

Canada Council: New Media Grant to produce Felt Histories: an interactive computer based installation using touch and motor control systems, 1997, \$35K

Canada Council Travel Grant: Siggraph'97 in Los Angeles to exhibit interactive artwork in the Electric Garden, 1997, \$1000

Canada Council Presentation Distribution Grant for digital eARTh, curatorial grant for the Transverse Worlds: a web-based community art project, 1997, \$16K

Canada Council: Computer Integrated Media grant to produce Bodymaps: artifacts of Touch, an interactive computer based audio video installation using touch, 1996, \$35K

Canada Council Travel Grant: Ars Electronica exhibition of Bodymaps, and DEAF festival in Rotterdam, the Netherlands, 1996, \$2000

Canada Council Presentation Distribution Grant for digital eARTh, curatorial grant for the Ecology of Communication, \$16K

Centre for Image and Sound Research: research and development grant for production of immerce multi-media exploration of navigation within dance and movement, 1993 – 94, \$25K

Canada Council Integrated Media Research grant for motion capture interface and software design and development, 1992, \$30K

External Affairs Canada: Touring Grant for Interactive Performance Los Angeles, California, and Sidney, Australia, 1991, \$32,000, Principle Investigator

Thecla Schiphorst Curriculum Vitae

Associate Professor, School of Interactive Arts & Technology, Simon Fraser University

International Project Activity:

Project Title: move.me (smart fabrics research in flexible displays, emissive textiles)
Country of Project: USA, Tempe Arizona
Affiliated Institution(s): Flexible Display Centre, Arizona State University, Interactivity Lab SFU
Resarchers: Dr Ghassan Jabbour, Thecla Schiphorst
Role in Project: Research
Funding Agency: SFU; President's Research Grant
Start Date (Month and Year): April 2005
End Date (Month and Year): April 2007

Project Description: Research in garments, smart textiles, and flexible electronics and displays is a new and fast growing research domain that intersects textile and materials research, user interaction and HCI. This research applies research in smart fabrics and material engineering to wearable technologies and garment design as applied to ongoing research of the whisper[s] research group.

Project Title: <passepourtout>
Country of Project: The Netherlands
Affiliated Institution(s): V2-Lab Rotterdam, CWI (Amsterdam), TUE, Phillips Research
Role in Project: Research
Funding Agency: Frame 6 EU Funding, Nokia, Canada Council
Start Date (Month and Year): April 2005
End Date (Month and Year): April 2007

Project Description: **Passepourtout: Coupling Scalable Media to Ambient Experience**
By bringing elements of the home and personal environment under the control of networked media, these can become more reactive to viewers' wishes in presentation. This will result in bringing greater pleasure, emotion and direct experience into content. At the same time, managing and influencing the content enjoyed by a group/family, or participation in the process, is a much greater need than ever before. The Passepourtout project brings the elements of European CE Industry together with Innovators in content creation and design, to unleash the potential of reactive content in an ambient experience.

The participation of V2_Lab in the Passepourtout project signals a trajectory where artistic inquiry can lead research in this area. V2_ is interested in bringing the framework of artistic practice as a mechanism for designing within the Passepourtout project. V2_ is working in parallel and together with other Passepourtout partners in conceptualizing, modeling, prototyping, implementing, testing and iterating projects for and with other Passepourtout partners. V2_ has selected the artist, Thecla Schiphorst to lead the V2 lab team in this process. The V2 internal project names for this work is move.me, and soft(n)

Tenure Review CV

Thecla Schiphorst / Associate Professor / School of Interactive Arts & Technology

Service to Simon Fraser University:

SIAT Departmental Committees

Graduate Program Committee	member	May 2002 – present
Graduate Admissions Committee	member	September 2005 to June 2006
Advisory Committee to the Chair	member	September 2005 – present
Review, Tenure and Promotions Committee	member	May 2005 – April 2007
Laboratories and Facilities committee	member	Sept 05 – present
CFI Interactivity Lab	Director	May 2002 – August 2005
PMA Stream task group for Undergraduate Curriculum	Coordinator	August 2003 – January 2004

FAS Faculty Committees

SIAT Wave III Hiring Committee	member	April 2006 – January 2007
SIAT Wave II Hiring Committee	member	April 2003 – January 2005
SIAT Director Search Committee	member	May 2002 – September 2003
UCrack: Undergraduate Curriculum Revision Committee	member	June 2006 – October 2006

Simon Fraser University Committees

CFI Leading Edge Fund Grant Committee	member	October 2005 – December 2005
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Active Service to the Academic Community:

Social Sciences Humanities Research Council	Grant Assessor	Fall 2007
Goldsmith College, Intimacy Conference	Selection Committee	Fall 2007
Leonardo Journal of ISAST	Journal Reviewer	May 2007
Dutch Electronic Arts Festival (DEAF06)	Expert Consultant	DEAF07 festival concept committee January 2006
Elsevier Press	Journal Reviewer	Transactions of Human Computer Interaction
Tangible and Embedded Interfaces Conference	Paper Reviewer	October 2006

Tenure Review CV

Thecla Schiphorst / Associate Professor / School of Interactive Arts & Technology

Creativity and Cognition Conference	Paper Reviewer	December 2006
Canada Council for the Arts	Jury Member	Dance on Screen Program, 2005
Canada Council for the Arts [AIRES Program]	Jury Member	Canada Council and NRC [National Research Council Residence Program October 2003, Ottawa
Canada Council for the Arts	Advisory Member	Advisory Committee on Policies for Collaboration in Funding with SSHRC, NSERC, NRC, July 2003, Ottawa
Vancouver Art Gallery	Advisory Member	Advisory Community member for Cyborg Exhibition, 2002
Theatre Journal of Canada	Referee	Theatre Journal of Canada, 2003
MIT Press	Referee	Book Publication Request, 2003
Rennsellar Polytechnic Institute	External Assessor	Tenure Track Appointment, 2003
UIST (User Interface Software and Technology)	Reviewer	Full paper reviewer, October 2002
British Columbia Festival of the Arts	Advisory Committee	Committee Member, Fall 2001
Festival de Nouveau Danse	Jury member	Monaco Danse Festival Selection Committee, June 2000
Siggraph 2000	Jury member	Art Gallery selection committee, 2000
Vancouver Electronic Arts Festival	Programming Committee	Zero Degree Monstrosities, digital eARTh, Vancouver, 2000
ISEA, International Symposium for Electronic Arts	Board Member	ISEA Board, 1998-2001
Vancouver Dance Centre	Board member	Vancouver Dance Centre, 1998-1999
Siggraph 1998	Chair	Art & Design Sketches Committee 1998
Siggraph 1997	Jury member	Art & Design Sketches Committee 1997
BC Arts Council	Jury Member	Film and Video Jury 1996
Vancouver Electronic Arts Festival (Body Electric)	Programming Committee	BodyElectric, VAAF 1996
Images du Futur	Jury member	Computer Animation Competition 1995
Canada Council For the Arts	Jury member	Interdisciplinary Performance Art 1993
Conference on Dance and Technology	Conference Chair	Second Annual Conference on Dance and Technology Simon Fraser University July 1993

Membership in the Academic Community:

ACM member, IEEE member