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Installation/Interactive Projects:

produced@ZKM

2009

Concept and design: presentation of interactive publications for produced@ZKM exhibition (October 2009) at the ZKM Centre for Art and Media Karlsruhe



Touchdome

2009

Hemispherical multi-touch projection surface (work in progress)



Universal capture through stereographic multi-perspective recording and scene reconstruction

2009

Research project which combines stereographic video and real-time 3D computer graphic to demonstrate a novel method of documenting dance and other performing art practices through stereographic multi-perspective recording, volumetric geometry reconstruction and universal playback



Double District

2008

Stereographic multi screen/ multi-channel video Installation
Volker Kuchelmeister, Saburo Teshigawara
University of New South Wales iCinema Research Centre [AU], epidemic [F]
Exhibitions: Premiere at eArts festival Shanghai, 2008. Le Volcan Numerique.
Volcan Scène nationale du Havre / Le Havre, France, 2009.
Technical Coordinator, Cinematographer, Post Processing, stereo calibration



BackOBourke Exhibition Centre iDome installation

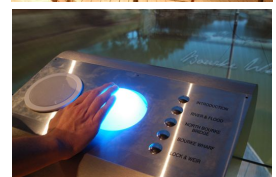
2008

Augmented reality Interactive Immersive Installation
A 360 degree video installation in the iDome, featuring a journey on the Darling River in the outback Australia, augmented with multiple information layers.

Volker Kuchelmeister

University of New South Wales iCinema Research Centre [AU], Spinifex Interactive [AU], Bourke Shire Council [AU]

Exhibitions: BackOBourke Exhibition Centre opens April 09
Concept and technical realisation, interface design



T_Visionarium

2008

Interactive 3D 360° Immersive Installation

T_Visionarium was created for the Advanced Interaction and Visualization Environment (AVIE), and it offers the means to capture and re-present televisual information, allowing viewers to explore and actively edit a multitude of stories in three dimensions.

Jeffrey Shaw, Dennis Del Favero, Matthew McGinity, Jeffrey Shaw, Volker Kuchelmeister

University of New South Wales iCinema Research Centre [AU]

Exhibitions: University of New South Wales Sydney 2005, eArts Festival: eLandscapes Shanghai Science and Technology Museum Shanghai 2008, BIACS3 Biennale de Arte Contemporáneo de Seville Alhambra Granada 2008, Sydney Festival 2008 Scientia Building, University of New South Wales Sydney

Project Coordinator, Interface Design



Unmakeable Love

2008

Interactive 3D 360° Immersive Installation

Jeffrey Shaw, Sarah Kenderdine

Exhibitions: eArts Festival: eLandscapes Shanghai Science and Technology Museum Shanghai 2008

Physical interface hardware, electronics



There is still time .. brother. The Wooster Group

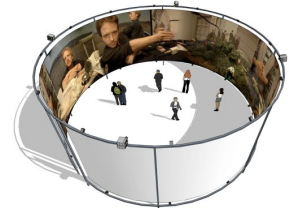
2007

Interactive 360° Immersive Video Installation

A theatrical video installation, featuring a multi-layered performance by The Wooster Group, Directed by Elisabeth LeCompte

Volker Kuchelmeister, Jeffrey Shaw, Bernd Lintermann, Commissioned by EMPAC, the Experimental Media and Performing Arts Center at Rensselaer Polytechnic Institute [USA], University of New South Wales iCinema Research Centre [AU], ZKM Karlsruhe [D]

Exhibitions: Panorama Festival ZKM Center for Art and Media Karlsruhe 2007, Experimental Media and Performing Arts Centre (EMPAC) New York 2008
Technical Coordinator recording, Cinematographer, Post processing



Mining VR Training Simulation

2007

Interactive 3D 360° Immersive Installation

The development of immensely realistic Virtual Reality underground and surface mining environments resulting from a unique inter-disciplinary collaboration at the University of New South Wales (UNSW) has generated multi-million dollar sales and attracted intense interest across the mining sector.

McGinhity, Kuchelmeister, Hardjano, Shaw, Del Favero, Compton, Pagnucco, Stothardt

University of New South Wales, iCinema Centre, School for Mining Engineering

Exhibitions: The technology is being deployed initially at Argenton (Newcastle), Woonoona (Wollongong), Lithgow and Singleton.

Design/implementation of Interaction Consoles and iDome environment



Interaction Device

2007

The control console allows users to navigate with a virtual environment and control ambient settings (light, sound volume, ...). Using inertia and magnetic based technology, the 3D wand allows users to directly interact with the application by pointing on the screen surface. The Interaction Device can be adapted for various projection environments (for instance AVIE and iDome). The device is in use for industrial VR training simulations and exhibitions around the world.

Kuchelmeister, Shaw

Concept, Design and Implementation



Place Hampi

2006

Interactive 360° Immersive Video Installation

Place-Hampi is a vibrant theatre for embodied participation in the drama of Hindu mythology set into a real-world landscape. PLACE-Hampi provides the setting for a stereographic virtual landscape, populated by sixteen cylinders enclosing a constellation of cinematic events in which the audience can participate, traverse and examine at will.

Jeffrey Shaw, Sarah Kenderdine

University of New South Wales iCinema Research Centre [AU], Museum Victoria

Exhibitions: Lille3000: Lille 2006 Bombaysers de Lille Lille, IDM Jamboree Singapore Science Centre 2007, From Spark to Pixel Martin-Gropius-Bau Berlin 2007, Panorama Festival ZKM Center for Art and Media Karlsruhe 2007, Immigration Museum Melbourne 2008, eArts Festival: eLandscapes Shanghai Science and Technology Museum Shanghai 2008
Chief Investigator ARC Linkage Grant



Conversations @ the Studio

2005

Augmented reality Interactive Immersive Installation

Conversations@the Studio presents an innovative mixed-reality narrative model of the Powerhouse Museum, Sydney, Decorative Arts collection within a uniquely designed Intelligent Interactive Information Environment. It takes the natural navigation of a real world situation – a contemporary Glass Studio – as its point of departure. By visualising a 360 degree global video recording, made on location at the Glass Studio, it provides the telepresent experience of an actual visit to the Studio, giving full interactive freedom to the viewer's gaze.

Volker Kuchelmeister, Jeffrey Shaw, Dennis Del Favero, Neil Brown, Joachim Tesch, Nikos Papastergiadis, Scott McQuire, Andy Arthurs, Sarah Kenderdine, Kevin Sumption, Grace Cochrane

University of New South Wales iCinema Research Centre [AU], Powerhouse Museum Sydney [AU]

Exhibitions: Permanent exhibit at the Powerhouse Museum Sydney, Design across Time Exhibition

Chief Investigator, Concept and Production and Technical Coordinator



iDome Immersive Visualization Environment

2004-ongoing

Immersive Projection Environment

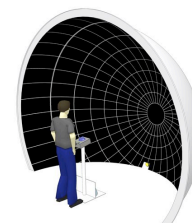
The iDome utilizes a three meter fiberglass dome as the surface for 180 degree projection made possible by a high-resolution projector and a spherical mirror as reflection surface

Volker Kuchelmeister (Joint IP holder)

University of New South Wales iCinema Research Centre [AU]

Exhibitions: Permanent at iCinema Scientia Facility, Powerhouse Museum Sydney, BackoBourke Exhibition Centre, University of Western Australia and four VR Mining training sites across NSW [AU]

Production, Design and Technical Coordinator



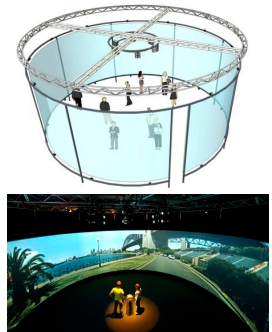
Spherecam

2004-ongoing
Omni directional Capture System
240 x 360 degree digital ultra high resolution video camera for interactive
immersive visualisation research applications
Volker Kuchelmeister,
University of New South Wales iCinema Research Centre [AU]
Exhibitions: Used for Sydney Journey, The Wooster Group project, Double
District
Technical lead, Production, Design and Technical Coordinator



AVIE Advanced Visualization and Interaction Environment

2004-ongoing
Interactive 3D 360° Immersive Environment
AVIE consists of a 360 degree stereoscopic immersive interactive visualisation
environment with motion and shape tracking systems and a multi-channel
audio system. It is a set of state-of-the-art resources that enables the
development and study of applications in the fields of immersive visualisation,
immersive sonification, and human interaction design.
Jeffrey Shaw, Dennis Del Favero, Matthew McGinity, Volker Kuchelmeister,
Ardrian Harjano, Jared Berghold
University of New South Wales iCinema Research Centre [AU]
Exhibitions: Permanent at iCinema Scientia Facility and four VR Mining
training sites across NSW [AU]
Production Coordination and Management



T_Visionarium I

2004
Interactive 3D 360° Immersive Installation
T_Visionarium I is an interactive immersive virtual environment set within a
Dome, twelve meters in diameter and nine meters high, made of inflatable
fabric and articulated to a satellite reception, recording and database system.
It allows viewers to spatially navigate a televisual database and apply a
recombinatory search matrix to create emergent narratives from the
database's network of digital streams.
Jeffrey Shaw, Dennis Del Favero, Matthew McGinity, Jeffrey Shaw, Volker
Kuchelmeister, Bernd Lintermann
University of New South Wales iCinema Research Centre [AU], ZKM
Karlsruhe [D]
Exhibitions: Lille3000: Lille 2004 European Capital of Culture Lille 2004, La
Rivoluzione Algoritmica Casa dell'Architettura Rome 2006
Project Coordinator



Conversations

2002
Interactive 3D VR Immersive Video Installation
Conversations is an experimental Distributed Multi-User Virtual Environment
forming the central focus of an Australian Research Council funded study
investigating the reformulation of narrative within digital cinema. It offers
viewers an immersive multi-modal interactive narrative experience dealing
with the events leading up to the escape, recapture, trial and hanging of
Ronald Ryan at Pentridge Prison, Melbourne in 1967, the last person publicly
executed in Australia.
Dennis Del Favero, Ross Gibson, Ian Howard, Jeffrey Shaw, Volker
Kuchelmeister, Mat McGinity
University of New South Wales iCinema Research Centre [AU], University of
Sydney [AU], Powerhouse Museum Sydney [AU]
Exhibitions: Powerhouse Museum Sydney 2002
Production and technical Coordinator



Their Things Spoken

2001

Exhibition and DVD-ROM Publication

The contributors to this archive are museum visitors who responded to an invitation to bring their favorite objects with them and tell a story about its personal significance. These objects were digitized, the stories recorded, and photos were taken of each person holding their object. In the interactive artwork these elements together become an image, sound, and text archive, which are respectively presented on the screen within three interrelated windows. The user can choose one or other of these elements to navigate through and across the entries and in this way explore an emergent matrix of collective memories.

Agnes Hegedüs

ZKM Karlsruhe

Exhibitions: Future Cinema ZKM 2002, Surrogate ZKM 1998

Production management, Programming and interface design



Panoramic Navigator

1997

Augmented Reality Information System

The Panoramic Navigator is a uniquely new interactive multimedia information terminal that embodies patented augmented reality technologies. It allows the general public to intuitively orientate themselves in large spaces and quickly access information concerning selected features of those spaces. Rotating the Panoramic Navigator presents a complete 360 degree real time video view of the surrounding environment and points out and elucidates areas or objects of special interest via its touch screen and computer generated visual display.

Volker Kuchelmeister, Jeffrey Shaw

ZKM Karlsruhe [D]

Exhibitions: ZKM Karlsruhe 1997, i3 Conference 1998, EXPO 2000 Hannover
Concept, Production, technical Coordinator and Interface Design



ZKM Information Terminals

1997

Information Terminals

Three networked terminals in the ZKM shop allows visitors access to the large artists/works database of the ZKM and introduces them to the ZKM Institutes and spacial distribution in the building

Volker Kuchelmeister

ZKM Karlsruhe [D]

Exhibitions: ZKM Karlsruhe

Production, technical Coordinator and Interface Design

Improvisation Technologies

1995

Educational application for professional Dancers

'Improvisation Technologies' is a digital dancing school that feeds William Forsythe's improvisation techniques into the basic training. Forsythe explains the key principles of his improvisation work in over 100 video chapters in the form of short lectures. The video recordings were created graphically: animated white lines and other effects delineate sequences of movement and figures. Physical movement and its relationship with space can thus be perceived in a quite different way. The installation also offers documentation of the ballet performance 'Self Meant to Govern', which was recorded with four cameras. The viewer can choose between the different viewpoints. Performance and studio rehearsal sequences are linked with the lecture demonstration to illustrate the theory.

Bill Forsythe, Volker Kuchelmeister, Nik Haffner, Chris Ziegler

ZKM Karlsruhe [D], Ballet Frankfurt

Exhibitions: Permanent at Ballet Studio Frankfurt

Software, video editing, interface design



Publication Projects:

T_Visionarium, a User Guide

2008

Book and DVD-Video

Situating T_Visionarium in terms of wider cultural shifts, the book is a user's guide, both to T_Visionarium, and to screen culture in general.

Jill Bennet

UNSW iCinema Centre, ZKM Karlsruhe

Screen design and DVD mastering



Un_imaginable

2008

Book and DVD-Video

Un_imaginable is the first installment in the ZKM Digital Arts Edition series jointly produced by the iCinema Centre, Sydney, the ZKM Karlsruhe and the University of Pittsburgh. Works by Dennis Del Favero, Korpys / Löffler, Susan Norrie and Peter Weibel.

Dennis Del Favero, Ursula Frohne, Peter Weibel

ZKM Karlsruhe, UNSW iCinema Centre, University Pittsburgh

Screen design and DVD mastering



iCinema DVD

2007

DVD Video

A compilation of iCinema and related projects on DVD-Video

UNSW iCinema Centre

Screen design and DVD mastering

Deep Sleep

2004

Interactive DVD-ROM and booklet

Dennis Del Favero. Deep Sleep moves backwards and forwards in time between a notorious Sydney psychiatric institution of the 1970's, where patients were subjected to deep sleep therapy

Dennis Del Favero

ZKM Karlsruhe, UNSW iCinema Centre

Multimedia authoring, Software, Screen Design and CD-ROM Mastering

artintact, complete

2002

Interactive DVD-ROM and booklet

From 1994 to 1999, the Center for Art and Media in Karlsruhe presented pioneering works of interactive media art in the book-with-CD-ROM package entitled artintact. Now representing a unique collection of art treasures of a very special kind, the magazine counts among the few examples of an original project devised specifically for the CD-ROM medium. artintact was presented worldwide at numerous festivals and exhibitions, and won several awards.

Works by: Jean-Louis Boissier, Eric Lanz, Bill Seaman, Luc Courchesne, Miroslav Rogala, Tamás Waliczky, Ken Feingold, Perry Hoberman, George Legrady, Marina Grzanic, Aina Smid, Dieter Kiessling, Anja Wiese, Forced Entertainment, Hugo Glendinning, Masaki Fujihata, Agnes Hegedüs.

Publication: Jeffrey Shaw, Volker Kuchelmeister, Astrid Sommer, Holger Jost
ZKM Karlsruhe

Exhibitions: Future Cinema ZKM 2002, YOU_ser ZKM 2007-09

Multimedia authoring, Software, Screen Design and DVD-ROM Mastering



New Screen Media

2002

Interactive DVD-ROM and book

This text presents the work of cultural theorists and philosophers of new media, together with the perspectives of artists experimenting with different interactive models critically examining their own practice. The accompanying DVD-ROM provides a sampler of interactive work and videos by which to explore the experimental territory where the cinematic and digital arts converge.

Martin Rieser, Andrea Zapp
ZKM Karlsruhe, British Film Institute
Screen design and DVD mastering



Noach

2002

DVD-Video

Documentary of a theatre performance in the making

Theater Bremen

Screen design and DVD mastering

PVC Performance Video ComputerClipClub

2002

DVD-Video and booklet

elektronische Kunst, Projektion und Reflexion 1995/96

Gerhard Johann Lischka

ZKM Karlsruhe [D], Ballet Frankfurt

Screen design and DVD mastering



(dis)Locations

2001

Interactive DVD-ROM and book

ZKM Digital Arts Edition. The works in ((dis)Locations explore a multi-dimensional concept of narrative.

Jeffrey Shaw, Peter Weibel, Ian Howard, Dennis Del Favero, Agnes Hegedüs

ZKM Karlsruhe, UNSW iCinema Centre

Exhibitions: Future Cinema ZKM 2002, Australian Centre for the Moving

Image Melbourne 2003, ZKM Center for Art and Media Karlsruhe 2003

Multimedia authoring, Software, Screen Design and DVD-ROM Mastering



Mansaku & Mansai, That's Kyogen

2000

Interactive DVD-ROM and five DVD-Videos

Kyogen, a 600-year-old form of traditional Japanese theater uses highly stylized acting techniques to paint a portrait of the human experience. This publication gives an in-depth view into acting techniques, the stage and properties and the narrative aspect of the theatre form. It consists thirteen Kyogen performances and numerous theoretical video clips, all cross-referenced to give the general audience and theatre professionals never before accessible material to work and play with.

Volker Kuchelmeister, Chiho Hoshino, Christian Ziegler, Andreas Kratky, Yvonne Mohr

Waseda University Tokyo [JP], ZKM Karlsruhe [D], Tokyo Media Connection [JP]

Production manager, Concept, Software, screen design and DVD mastering



Cross Currents CD-ROM

1999

Interactive CD-ROM and booklet

Produced at ZKM. Cross Currents explores the traffic in human beings, specifically the sex trade, sweeping Europe and exploiting, amongst other victims, refugees from former Yugoslavia

Dennis Del Favero

ZKM Karlsruhe

Multimedia authoring, Software, Screen Design and CD-ROM Mastering



Improvisation Technologies, A tool for the analytical dance eye

1999

CD-ROM and booklet, ZKM digital arts edition

Improvisation Technologies' is a digital dancing school that feeds Forsythe's improvisation techniques into the basic training. Forsythe explains the key principles of his improvisation work in over 100 video chapters in the form of short lectures. The video recordings were created graphically: animated white lines and other effects delineate sequences of movement and figures.

Physical movement and its relationship with space can thus be perceived in a quite different way. The installation also offers documentation of the ballet called 'Self Meant to Govern', which was recorded with four cameras. The viewer can choose between the different viewpoints. Performance and studio rehearsal sequences are linked with the lecture demonstration to illustrate the theory.

Bill Forsythe, Volker Kuchelmeister, Nik Haffner, Chris Ziegler

ZKM Karlsruhe [D], Ballet Frankfurt

Production manager, Multimedia Authoring, Concept, Software, Screen Design and CD-ROM mastering



100 Masterpieces of the Collection of the Vitra Design Museum

1996

Exhibition Catalog and Interactive CD-ROM

A virtual tour of the Vitra Design Museum and the 100 Masterpieces chair exhibition. Innovative virtual-reality technology creates a realistic impression of 3-D space.

Volker Kuchelmeister

ZKM Karlsruhe, Vitra Design Museum

Multimedia authoring, Software, Screen Design and CD-ROM Mastering



artintact 5, 1998

Interactive CD-ROM and book

artintact features pioneering works of interactive media art in a book-with-CD-ROM package. Representing a unique collection of art treasures of a very special kind, the magazine counts among the few examples of an original project devised specifically for the CD-ROM medium.

Works by: Forced Entertainment, Hugo Glendinning, Masaki Fujihata, Agnes Hegedüs. Publication: Jeffrey Shaw, Volker Kuchelmeister, Astrid Sommer, Holger Jost

ZKM Karlsruhe

Exhibitions: YOU_ser ZKM 2007-09

Multimedia authoring, Software, Screen Design and CD-ROM Mastering



artintact 4, 1997

Interactive CD-ROM and book

artintact features pioneering works of interactive media art in a book-with-CD-ROM package. Representing a unique collection of art treasures of a very special kind, the magazine counts among the few examples of an original project devised specifically for the CD-ROM medium.

Works by: Marina Grzanic, Aina Smid, Dieter Kiessling, Anja Wiese.

Publication: Jeffrey Shaw, Volker Kuchelmeister, Astrid Sommer, Holger Jost

ZKM Karlsruhe

Exhibitions: YOU_ser ZKM 2007-09

Multimedia authoring, Software, Screen Design and CD-ROM Mastering



artintact 3, 1996

Interactive CD-ROM and book

artintact features pioneering works of interactive media art in a book-with-CD-ROM package. Representing a unique collection of art treasures of a very special kind, the magazine counts among the few examples of an original project devised specifically for the CD-ROM medium.

Works by: Ken Feingold, Perry Hoberman, George Legrady. Publication:

Jeffrey Shaw, Volker Kuchelmeister, Astrid Sommer, Holger Jost

ZKM Karlsruhe

Exhibitions: Future Cinema ZKM 2002, YOU_ser ZKM 2007-09

Multimedia authoring, Software, Screen Design and CD-ROM Mastering



artintact 2, 1995

Interactive CD-ROM and book

artintact features pioneering works of interactive media art in a book-with-CD-ROM package. Representing a unique collection of art treasures of a very special kind, the magazine counts among the few examples of an original project devised specifically for the CD-ROM medium.

Works by: Luc Courchesne, Miroslav Rogala, Tamás Waliczky .Publication: Jeffrey Shaw, Volker Kuchelmeister, Astrid Sommer, Holger Jost
ZKM Karlsruhe

Exhibitions: YOU_ser ZKM 2007-09

Multimedia authoring, Software, Screen Design and CD-ROM Mastering



artintact 1, 1994

Interactive CD-ROM and book

artintact features pioneering works of interactive media art in a book-with-CD-ROM package. Representing a unique collection of art treasures of a very special kind, the magazine counts among the few examples of an original project devised specifically for the CD-ROM medium.

Works by: Jean-Louis Boissier, Eric Lanz, Bill Seaman. Publication: Jeffrey Shaw, Volker Kuchelmeister, Astrid Sommer, Holger Jost
ZKM Karlsruhe

Exhibitions: Future Cinema ZKM 2002, YOU_ser ZKM 2007-09

Multimedia authoring, Software, Screen Design and CD-ROM Mastering



Film Projects:

iCinema Stereo Reel

2008

Stereo reel featuring excerpts from the project Hampi, Double District and Mining VR. In L/R side-by-side and anaglyphic format

Volker Kuchelmeister

University of New South Wales iCinema Research Centre [AU]

Exhibitions: Infocomm Singapore

Post processing, editing



Hampi Interview 360°

2008

360° Interview

Volker Kuchelmeister, Jeffrey Shaw, Sarah Kenderdine

Museum Victoria

Exhibitions: Hampi Exhibition at the Melbourne Immigration Museum 2008-09

Panoramic motion footage



Omni-Directional Capture and Playback Systems

2008

Compilation of 360° recording and playback Environments

Presentation given during a poster session at UNSW

Volker Kuchelmeister

University of New South Wales iCinema Research Centre [AU]

Exhibitions: UNSW Research Showcase: Creative Media

Cinematography, post processing, video Production



T_Visionarium documentary

2008

Documentary with Voice Over

Project and Installation documentation

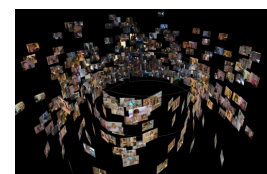
Volker Kuchelmeister, Darren Connel

University of New South Wales iCinema Research Centre [AU], ZKM

Karlsruhe

Exhibitions: T_Visionarium, a User Guide DVD-Video and book publication

Script, filmed and edited



Mining_VR documentary

2008

Documentary with Voice Over

Project and Installation documentation

Volker Kuchelmeister, Nadja Schanz, Tim Gaul

University of New South Wales iCinema Research Centre, School for Mining Engineering [AU]

Exhibitions: AIMEX mining trade show Sydney

Video Production



The Sydney Journey 360°

2007

360° Panoramic Film

Misc. location in and around Sydney

Volker Kuchelmeister,

University of New South Wales iCinema Research Centre [AU]

Exhibitions: Permanent at iCinema Scientia Facility

Technical Co-Coordinator, Cinematographer, Post processing



Rajastahn India 360°

2007

360° Spherical Film

Scenes from a cattle fair, a Sufi Festival and misc. sites in Rajasthan, India

Volker Kuchelmeister, Jeffrey Shaw, Sarah Kenderdine

Exhibitions: Permanent at iCinema Scientia Facility

Technical Co-Coordinator, Cinematographer, Post processing



Synchrotron 360°

2007

360° Spherical Film

Dolly shots in the Synchrotron particle accelerator Melbourne

Volker Kuchelmeister, Chris Henschke

Exhibitions: Permanent at iCinema Scientia Facility

Technical Co-Coordinator, Cinematographer, Post processing



Skate park 360°

2007

360° Spherical Film

Skate park in Sydney

Volker Kuchelmeister

University of New South Wales iCinema Research Centre [AU]

Exhibitions: Permanent at iCinema Scientia Facility

Technical Co-Coordinator, Cinematographer, Post processing



The Hawkesbury River Ride 360°

2006

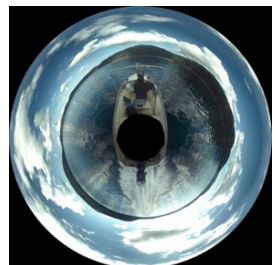
360° Spherical Film

Featuring a ride on a motor boat at the Hawkesbury River NSW Australia

Volker Kuchelmeister,

Exhibitions: Permanent at iCinema Scientia Facility

Technical Co-Coordinator, Cinematographer, Post processing



Conversations documentary

2002

Documentary with Voice Over

Project and Installation documentation

Volker Kuchelmeister, Greg Ferris

University of New South Wales iCinema Research Centre [AU]

Exhibitions: Conversations DVD-Video and booklet publication



Grants/Residencies:

Researcher in Residence

Institute for Visual Media, ZKM Centre for Art and Media Karlsruhe [D]
June - September 2009

Immersive Interactive Projection Environments using Quartz Composer and OpenGL

AUC (Australian University Consortium) Seeding Grant 2008, 2008
A\$ 2,500
Volker Kuchelmeister
University of New South Wales [AU]
Grant holder

FARO LS420 High Precision Measurement Scanner and Software

University of New South Wales Major Research Equipment and Infrastructure Scheme, 2008
A\$ 82,500
Pagnucco, M., Kuchelmeister V., Stodhardt, P., Rizos, C., Sammut, C., Blair, A., Ryan, M., Shaw, J., Del Favero, D., Hardjono, A.
University of New South Wales [AU]
Participant

Portable stereo panoramic virtual reality visualisation system

University of New South Wales Major Equipment and Infrastructure scheme , 2007
A\$ 99,000
Phillip Stothard, Jeffrey Shaw, Bruce Hebblewhite, Dennis Del Favero, Maurice Pagnucco, Paul Compton, Matthew McGinity
University of New South Wales [AU]
Major Contribution

Reformulating narrative in virtual heritage using a co-evolutionary model of immersive interactivity

Australian Research Council Linkage Grant, 2006
A\$ 519,000
Jeffrey Shaw, Dennis Del Favero, Volker Kuchelmeister, Neil Brown, Paul Compton, Maurice Pagnucco, Andre van Schaik, Craig Jin, Hock Soon Seah, Peter Weibel, Sarah Kenderdine, Tim Hart, John Fritz
University of New South Wales [AU], University of Sydney [AU], Museum Victoria [AU]
Chief Investigator

TRANSTOR integrated disk storage infrastructure in AVIE and Panocam

Research Infrastructure Block Grant (RIGB) Grant, 2006
A\$ 40,000
Jeffrey Shaw, Dennis Del Favero, Neil Brown, Paul Compton, Maurice Pagnucco, Matthew McGinity
University of New South Wales [AU]
Major Contribution

Digital Arts Program

Contestable Funding for International Strategic Projects, 2005
A\$ 25,000
Dennis Del Favero, Neil Brown, Jill Bennett, Maurice Pagnucco
University of New South Wales [AU]
Contribution

Co-evolutionary narrative as machine autonomy in the relationship between artificial agents and human participants in the interactive cinema

Australian Research Council Discovery, 2004
A\$ 219,000
Dennis Del Favero, Jeffrey Shaw, Steve Benford, Johannes Goebel
University of New South Wales [AU], EMPAC, the Experimental Media and Performing Arts Center at Rensselaer Polytechnic Institute [USA]
Major Contribution

Advanced Visualization and Interaction Environment (AVIE)

University of New South Wales Capital Infrastructure Grants Scheme, 2004

A\$ 280,000

Jeffrey Shaw, Dennis Del Favero

University of New South Wales [AU]

Major Contribution

Interactive Digital Media Matrix

Australian Research Council Research Network Seed Funding, 2004

A\$ 30,000

Jeffrey Shaw, Dennis Del Favero

University of New South Wales [AU]

Major Contribution

An investigation of interactive strategies used within multi-sensor enabled mixed media installation to develop a metaphor based model of participatory interaction

University of New South Wales /College of Fine Arts Faculty Research Grant, 2004

A\$ 8,000

Volker Kuchelmeister, Brad Miller

University of New South Wales [AU]

Chief Investigator

240 x 360 degree digital video camera for interactive immersive visualisation research applications

Australian Research Council Linkage Infrastructure, 2003

A\$ 289,458

Jeffrey Shaw, Dennis Del Favero, Neil Brown, Ian Howard, Ross Gibson, Mark Gugliemetti, Adrian Miles,

Scott McGuire, Nikos Papastergiadis, Henry Gardner, Pascal Vuylsteker

University of New South Wales [AU], University of Sydney [AU]

Major Contribution, technical lead

Reformulating museological narrative using three models of cinematic interactivity

Australian Research Council Linkage Project , 2003

A\$ 128,205

Jeffrey Shaw, Dennis Del Favero, Neil Brown, Volker Kuchelmeister, Nikos Papastergiadis, Scott McQuire,

Andy Arthurs

University of New South Wales [AU], University of Queensland [AU]

Chief Investigator

Interactive narrative as a form of recombinatory search in the cinematic transcription of televisual information

Australian Research Council Discovery , 2003

A\$ 241,954

Dennis Del Favero, Jeffrey Shaw, Neil Brown, Peter Weibel

University of New South Wales [AU], ZKM Karlsruhe [D]

Major Contribution

The reformulation of narrative within digital cinema as the integration of three models of interactivity

Australian Research Council Discovery , 2002

A\$ 122,882

Dennis Del Favero, Jeffrey Shaw, Ross Gibson, Ian Howard

University of New South Wales [AU], University of Sydney [AU]

Major Contribution

iiC_inema: an international collaborative research program involving the development of interactive immersive video technology and its creative and commercial application

Australian Research Council Linkage Infrastructure, 2000

A\$ 205,000

Dennis Del Favero, Jeffrey Shaw, Ian Howard

University of New South Wales [AU]

Major Contribution

eSCAPE - Electronic Landscapes

ESPRIT Program Information Technologies, European Union, 1997-2000

Jeffrey Shaw, Knowbotic Research, Masaki Fujihata, The Swedish Institute for Computer Science [SICS] ZKM | Karlsruhe [D]; University of Lancaster [UK]; Swedish Institute of Computer Science [S]; The University of Manchester [UK]. Contribution

eRENA - Electronic Arenas for Culture, Art, Performance and Entertainment

ESPRIT Program Information Technologies, European Union, 1997-2000

Jeffrey Shaw, Blast Theory, Michael Hoch, Ken Feingold, Bill Seaman, Gideon May
ZKM | Karlsruhe [D]; University of Nottingham [UK]; KTH, The Royal Institute of Technology, Sweden; GMD, National Research Center for Information Technology [D]; Illuminations Television [UK]; MIRALab, Universität Genf [CH]; British Telecom, Adastral Park [UK]; EPFL, Swiss Federal Institute of Technology [CH]
Contribution

Commissions and Commercial Projects:

BackOBourke Exhibition Centre Commission.

An innovative mixed-reality interactive cinema display for their permanent exhibition

2008

Kuchelmeister V

University of New South Wales, iCinema Centre

A\$ xxx,xxx

Mines Rescue Pty Ltd Commission.

Virtual Reality Mine Safety Training utilizing iCinema AVIE-SC and Interaction Consoles

2008

McGinhity, Kuchelmeister, Hardjano, Shaw, Del Favero, Compton, Pagnucco, Stothardt

University of New South Wales, iCinema Centre, School for Mining Engineering

A\$ xxx,xxx

Mines Rescue Pty Ltd Commission.

Virtual Reality Mine Safety Training utilizing iCinema AVIE and iDOME.

2007

McGinhity, Kuchelmeister, Hardjano, Shaw, Del Favero, Compton, Pagnucco, Stothardt

University of New South Wales, iCinema Centre, School for Mining Engineering

A\$ x,xxx,xxx

Scitech/Questacon

iDome sale

2007

Kuchelmeister V

University of New South Wales, iCinema Centre

A\$ xx,xxx

University of Woolongong

iDome sale

2007

Kuchelmeister V

University of New South Wales, iCinema Centre

A\$ xx,xxx

University of Western Australia

iDome sale

2006

Kuchelmeister V

University of New South Wales,

iCinema Centre

A\$ xx,xxx

Websites:

kuchelmeister.net

A quick and dirty website as an online portfolio (under construction)

2009

<http://kuchelmeister.net>

UNSW iCinema Centre for Interactive Cinema Research

Site design and implementation of the centres activities

2002

<http://www.icinema.unsw.edu.au>

Kyogen

A communication platform between production partners in Tokyo (waseda University and Tokyo Media Connection) and at the ZKM Karlsruhe for the major publication project Mansaku & Mansai. That's Kyoegn

2000

Netcondition Exhibition ZKM Karlsruhe

Information about Artists and works. Database driven.

1999

ZKM Multimedia Studio

A site showcasing the activities of the Multimedia Studio

1999

Virtual ZKM

Conception and realisation of the virtual ZKM on the ZKM Website. Visitors can take a tour through the ZKM exhibitions and the Institutes. Using QuickTime VR technology

1998

ZKM In-house Visitors Information System

Intranet database driven Website for the ZKM In-house Visitors Information System. Provides orientation in the building, artist's biographies and information about the artworks and events

1997

ZKM Live Webcams

using the Panoramic Navigator technology

1997

Publications, Papers, Posters, Workshops:

Universal capture through stereographic multi-perspective recording and scene reconstruction.

Volker Kuchelmeister

Accepted paper at the IEEE Pacific-Rim Conference on Multimedia (Bangkok Thailand, December 2009)

Immersive Mixed Media Augmented Reality Applications and Technology.

Volker Kuchelmeister, Jeffrey Shaw, Dennis Del Favero, Matthew McGinity, Ardrian Harjano

Accepted paper at the IEEE Pacific-Rim Conference on Multimedia (Bangkok Thailand, December 2009)

Omni Directional Capture Systems and Playback Environments

Poster. UNSW Research Showcase Creative Media, University of New South Wales Sydney [AU], 2008
Presentation

Computer based Knowledge transfer - Praxisbeispiele computergestützter Wissensvermittlung

Symposium. Vom Tafelbild zum globalen Datenraum. Neue Möglichkeiten der Bildproduktion und bildgebender Verfahren

ZKM Karlsruhe, 2000

Presenter

Ultra High resolution panoramic video: System design and post processing

Conference. VSMM Virtual Systems and Multimedia, Brisbane, University of Queensland Brisbane [AU], 2007
Workshop

AVIE: A Versatile Multi-User Stereo 360 degree Interactive VR Theatre

Matthew McGinity, Jeffrey Shaw, Volker Kuchelmeister, Ardrian Hardjono, Dennis Del Favero
Paper, Conference, Siggraph, 2007
Co-Author

DVD Art projects

Film Festival. Documentary Film Festival Kassel, Kassel [D], 2001
Presenter

DVD Art projects

Media Art Festival. European Media Art Festival Osnabrueck, Osnabrueck [D], 2001
Presenter

Kyogen DVD Project

Conference. fmx, Stuttgart [D], 2001
Presenter

Screen based interface design. Challenges and solutions

Symposium. Writing Interactive Fiction, ZKM Karlsruhe [D], 2001
Presenter

Multimedia Transfer Award 2000

Award. Multimedia Transfer Award, University of Karlsruhe, Karlsruhe [D], 2000
Juror

artware - CD-ROM als Medium des künstlerischen Ausdrucks

Studienbrief. Teleakademie Furtwangen, 2000
Writing

Exploring state of the art Visualizing techniques, Virtual Chulalongkorn Campus

Workshop. Faculty of Science, Chulalongkorn University, Bangkok, 1998
Presenter

Panoramic Navigator, Information terminals in public space

Industry Trade Show. Multimedia Market, Stuttgart [D], 1998
Presentation

Art on CD-ROM

Media Art Festival. Transmediale Berlin, Berlin [D], 1998
Presenter

Workshop Multimedia and Art

Workshop. Merz Academy Stuttgart [D], 1997
Presenter

Modern Ballet and New Media

Dance Festival. Torino Danza Festival, Teatro Regio Torino [IT], 1996
Presentation

Multimedia and Art

Presentation. Ecole Nationale des Beaux-Arts Strassbourg [F], 1996
Presentation

Awards:

Gold IDEA International Design Excellence Award 2009
The UNSW iCinema Centre has won a Gold IDEA for the iCASTS (Advanced Safety and Training Simulator) in the Category Interactive Product Experiences.

Silver Medal at Interactive Media Design Review
Mansaku & Mansai. That's Kyogen
I.D. Magazine, New York
2001

Nominee, Prix Möbius Award
Mansaku & Mansai. That's Kyogen
Prix Möbius Award, Munich
2001

Nominee, Europrix
Mansaku & Mansai. That's Kyogen
European Commission
2001

Winner Interactive Media Design Review
Improvisation Technologies
I.D. Magazine, New York
2000

Nominee, EuroPrix MultiMediaArt
Improvisation Technologies
European Commission and Austrian Ministry for Economic Affairs
1999

Honorary Mention (Special Prize), Prix Moebius Germany
Improvisation Technologies
Marshall Muenchen, Munich
1999

arts_edge, The Sub-Division... by Perry Hoberman in artintact 3 receives a first prize
artintact
Art Gallery of Western Australia, Perth
1998

Interactive Media, Honorary Mention, distinction
artintact
ID. Magazine, New York
1997

Award winner at the New Voices, New Visions 1996
Improvisation Technologies
New York. Wired Magazine, Interval Research & Voyager
1996

Honorary Mention Artec
Improvisation Technologies
Nagoya [JP]
1995

Exhibitions (excerpt):

Improvisation Technologies
produced@zkm. ZKM Karlsruhe
Curator: Peter Weibel
Karlsruhe, 2009 (coming up in October 09)

Double District
Le Volcan Numerique. Volcan Scène nationale du Havre / Le Havre, France
Curator: Richard Castelli, epidemic [France]
Le Havre, France, June 2009

Historical Darling River Journey
Permanent exhibit at the Back of Bourke Exhibition Centre
Curator: Bourke Shire Council and Spinifex Interactive
Bourke, since May 2009

Double District
Shanghai eArts Festival 2008, Urbanized Landscape. Shanghai Science and Technology Museum
Curator: Richard Castelli, epidemic [France]
Shanghai, October 2008

There is Still Time...Brother, The Wooster Group
Opening gala Experimental Media and Performing Arts Centre (EMPAC) Rensselaer Polytechnic Institute,
Troy NY, USA
Curator: Johannes Goebel
Troy New York, October 2008

There is Still Time...Brother, The Wooster Group
Panorama Festival ZKM Center for Art and Media, Karlsruhe, Germany
Curator: Peter Weibel
Karlsruhe, January 2008

Conversations @ the Studio
Powerhouse Museum. In the permanent collection. Exhibition Design Across Time
Curator: Grace Cocran
Sydney, 2005

Improvisation Technologies
Design designS, Salles de la Chambre de commerce et d'industrie, Strasbourg
Strasbourg, 2003

Improvisation Technologies
ArtFuture 220000 Festival, Taipei
Taipei, 2000

Improvisation Technologies
Festival Internacional de Linguagem Eletrônica, São Paulo
Sao paulo, 2000

Improvisation Technologies
Bronze Award, I.D. Magazine, New York, www.idonline.com
New york, 2000

Improvisation Technologies
Milia, Cannes
Cannes, 2000

Improvisation Technologies
EuroPrix Gala, Tampere, Finland
Tampere, 1999

Improvisation Technologies
Seoul Cyber Film Festival, Seoul
Curator:
Seoul, 1999

Improvisation Technologies
MILIA, Cannes
Cannes, 1999

Improvisation Technologies
Deutsche Oper, Berlin
Berlin, 1996

100 Masterpieces of the Collection of the Vitra Design Museum
In the permanent collection of the Vitra Design Museum
Curator: Rolf Fehlbaum
Weil am Rhein, 1996

Improvisation Technologies
Connecting Bodies, Amsterdam
Amsterdam, 1996

Improvisation Technologies
DEAF, Dutch Electronic Art Festival, Rotterdam
Rotterdam, 1995

Improvisation Technologies
Nippon Cultural Center, Tokio
Tokyo, 1995

Improvisation Technologies
Revue Virtuelle 12, Centre Georges Pompidou, Paris
Paris, 1994