

Semiconductor: Ruth Jarman (1973) and Joe Gerhardt (1972)

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All works distributed by The Lux + selected works with Video Data Bank, Chicago + LIMA, Amsterdam + British Council

Selected Solo Exhibitions

2018 La Lieu Unique, Nantes, France (upcoming)
2017 Axiom Art and Science Gallery, Tokyo, Japan (upcoming)
2017 *Where Shapes Come From*, Phoenix, Leicester, UK
2016 *Earthworks*, Sonar Planta, Sonar Festival, Barcelona
2014 *Cosmos*, Jerwood Open Forest, Alice Holt Forest, UK
2013 *Let There Be Light*, House of Electronic Arts, Basel, Switzerland
2011 *Worlds in the Making*, FACT, Liverpool, UK
2011 *Solar Systems*, Phoenix Brighton, UK
2011 *Semiconductor*, Nuit Blanche, Paris, France
2010 *Semiconductor*, Institute of Modern Art, Brisbane, Australia
2010 *Heliocentric*, Northern Gallery for Contemporary Art, Sunderland, UK
2009 *Magnetic Movie*, Exploratorium, San Francisco, USA
2008 *Magnetic Movie*, Hirshhorn Museum, Smithsonian Institute, Washington, USA

Selected Group Exhibitions

2017 *Infosphere* at Centro Nacional de las Artes (CENART), Mexico City, Mexico (upcoming)
2017 *The Universe and Art*, ArtScience Museum, Singapore (upcoming)
2017 *No Such Thing As Gravity*, National Taiwan Museum of Fine Arts, Taiwan (upcoming)
2016 *Nonspaces*, Akbank Sanat, Istanbul, Turkey
2016 *The Universe and Art*, Mori Art Museum, Tokyo, Japan
2016 *Seeing Round Corners*, Turner Contemporary, Margate, UK
2016 *The Thinking Machine, Ramon Llull and the Ars combinatorial*, CCCB, Barcelona, Spain
2016 *Project Daejon: Cosmos*, Daejon Museum of Art, South Korea
2016 *Extra Fantôme*, La Gaité Lyrique, Paris, France
2015 *Infosphere*, ZKM, Museum of Contemporary Art, Karlsruhe, Germany
2015 *Three Branches of the Same Tree*, Pump House Gallery, London
2015 *Animated Wonderworlds*, Museum of Design, Zurich
2014 *Da Vinci: Shaping the Future*, ArtScience Museum, Singapore
2014 *Jerwood Open Forest*, Jerwood Space, London
2014 *Vertigo*, SIM Gallery, Curitiba, Brazil
2013 *Galápagos*, CAM, Lisbon
2013 *Radical Fictions*, 4th Exhibition of Digital Art, Instituto Tomie Ohtake, São Paulo, Brazil
2013 *Space Odyssey 2.0*, Z33 House for Contemporary Art, Hasselt, Belgium
2013 *The Dark Universe*, Sonic Acts Festival, New Arts Space, Amsterdam
2012 *Field Conditions*, San Francisco Museum of Modern Art, San Francisco, USA
2012 *Digital Crystal: Swarovski at the Design Museum*, Design Museum, London
2012 *Is this Thing On?*, Contemporary Art Center (CAC), Cincinnati, Ohio, USA
2012 *Visualizing Sound*, Laboral, Gijon, Spain
2012 *Galapagos*, The Fruitmarket Gallery, Edinburgh, UK
2011 *Watch Me Move*, Barbican, London, UK
2011 *Wild Sky*, Edith Russ Haus Fur Media Kunst, Oldenburg, Germany
2011 *Invisible Fields*, Arts Santa Monica, Barcelona
2011 *Star Voyager: Exploring Space on Screen*, Australian Centre for the Moving Image, Melbourne, Australia
2011 *L'Objet Photographique, une Invention Permanente*, Maison Europeenne de la Photographie, Paris, France
2010 *Black Rain*, RIXC Gallery, Riga, Latvia
2010 *Into the Great Wide Open*, Vlieland, Netherlands.
2009 *Earth: Art of a changing world*, Royal Academy of Arts, London, UK

Selected Group screenings

2017 *Jihlava International Documentary Film Festival*, Czech Republic
2017 *The 24th Stuttgart Festival of Animated Film*, Stuttgart, Germany
2017 *Rotterdam International Film Festival*, Rotterdam, Netherlands
2016 *Hamburg International Short Film Festival*, Germany
2015 *Beyond the Single Screen*, Tate Britain, London. (Semiconductor in conversation)
2014 *Assembly: A Survey of Recent Artists' Film and Video in Britain 2008-2013*. Tate Britain, UK
2014 *Carroll/ Fletcher On Screen* in association with Animate Projects, UK
2013 *Ann Arbor Film Festival*, USA
2013 *7th Recontres Internationales Sciences et Cinemas*, Marseille, France
2013 *London International Animation Festival*, London, UK
2012 *41st International Film Festival Rotterdam*, Netherlands
2012 *Animafest*, Zagreb
2012 *Curtas Vila Do Conde*, Portugal
2012 *Ottawa International Animation Festival*, Canada
2012 *New York Film Festival: Views from the Avant Garde*, New York, USA
2012 *Melbourne International Animation Festival*, Australia
2012 *European Media Art Festival*, Osnabrueck, Germany
2012 *San Francisco International Film Festival*, USA
2011 *11th Seoul International New Media Festival*, Korea
2010 *27th Kassel Documentary Film and Video Festival*, Germany
2010 *Venice Film Festival (Orizzonti section)*, Venice, Italy
2009 *Sundance Film Festival*, USA
2009 *13th Media Art Biennale WRO 09*, Wroclaw Poland

2009 Cannes Film Festival, British Council
2009 31st Clermont-Ferrand Short Film Festival, France
2008 Edinburgh Film Festival, Edinburgh, Scotland
2008 Los Angeles Film Festival, Los Angeles, USA
2008 Annecy International Animated Film Festival, Annecy, France
2008 British Animation Awards, London (Awarded Best Film at the Cutting Edge)

Selected Residencies/Fellowships

2015 Collide@CERN Artist Residency, Geneva, Switzerland
2010 Smithsonian Artist Research Fellowship, Mineral Sciences Laboratory, Smithsonian Institution National Museum of Natural History, Washington DC, USA (3 months)
2010 Gulbenkian Galapagos Artists Residency (2 months)
2005/6 ACE International Fellowship: Art and Space Science at UC Berkeley Space Sciences Lab, USA (6 months)

Selected Commissions / Awards / Collections

2016 Purchase of Earthworks for Sorigué Collection
2016 Sónar Planta commission, Barcelona, Spain
2015 Quantum Shorts Prize
2015 Pump House Gallery, London
2014 ArtScience Museum, Singapore
2014 Jerwood Open Forest Commission, UK (first public sculptural work)
2014 Chichester Festival Theatre, UK
2013 Best Short Film Award, International Science and Film Festival, Marseilles, France
2013 Swarovski Commission
2012 Samsung Art + Prize Award
2012 Golden Gate Award for New Visions at San Francisco International Film Festival
2012 Art and Science Award at Ann Arbor Film Festival
2012 ACE Lottery Award
2011 Arts Santa Monica and Lighthouse co-commission. Supported by British Council
2011 FACT and Jacqui Davies co-commission
2009 Awarded the Nature Scientific Merit award for Magnetic Movie at Imagine Science Film Festival, New York
2009 AV Festival + Northern Lights co-commission
2008 Hirshhorn Museum, Washington, purchase of Magnetic Movie for permanent collection
2008 Centre Pompidou Collection, Paris, purchase of Brilliant Noise
2008 British Animation Awards, London. Awarded Best Film at the Cutting Edge
2007 An Animate Projects commission for Channel 4 in association with Arts Council England

Selected Lectures / Presentations / Duties

2017 1st International Forum on Digital Culture, Mapping Festival 2017, Geneva, Switzerland (with Arts@CERN)
2017 London Music Hackspace, Somerset House, London, UK
2016 CAST (Cornubian Arts and Science Trust), Helston, Cornwall, UK
2016 Ars Electronica Festival, Linz as part of the FEAT presentation, Austria
2015 International Conference of Historical Geographers 2015
2014 + 2015 Prix Ars Electronica Jury for Computer Animation / Film / VFX
2014 Hamburg International Short Film Festival Jury
2014 Resonate Festival, Belgrade, Serbia
2013 Ars Electronica Festival, Linz, Austria. Symposium: 'Expanded Digital Animation: Mapping an unlimited landscape'.
2013 Keynote Speakers at Nw/Thn: Documenting, Publishing and Disseminating Objects and Experiences Symposium. University of Sussex, UK.
2011 Changing Landscapes, Alaska Design Forum, Anchorage, Fairbanks and Juneau, Alaska.
2010 Hirshhorn Museum and Sculpture Garden, Washington DC, USA
Ongoing university and college lectures + multiple panels for art commissions and awards.

Selected Articles/Reviews

2015 [LAB 11](#), Arts Journal featuring *Cosmos* and *20Hz*
2014 *Semiconductor*, *The (New) Age of Discovery*, HOLO Magazine, CA/USA
2013 *Music of the Spheres*, Film Comment, USA
2011 *Worlds in the Making*, Aesthetica, UK
2011 *Worlds in the Making*, The Wire, UK
2011 *Art and Science collide at Worlds in the Making*, Guardian, UK
2009 *Semiconductor*, Wonderland Magazine, UK

Publications

2016 Sound Art. Sound as a Medium of Art, ZKM, edited by Peter Weibel. Distributed by MIT Press.
2015 Installation and the Moving Image, Catherine Elwes, Wallflower Press/Columbia University Press.
2014 Sound and Image in Digital Media, Oxford University Press, 2014. A Noisy Brush with the Infinite by Laura U. Marks.
2014 Technoetic Arts: A Journal of Speculative Research, Volume 12, 2014, Intellect Journals. *Semiconductor's landscapes as sound-sculptured time-based visualizations* by Inge Hinterwaldner.
2014 Earth Sound Earth Signal, Douglas Kahn, UC Press.
2013 Moving Image Review & Art Journal, Volume 2 Number 2, Intellect Journals. *The meta-physics of data: Philosophical science in Semiconductor's animated videos* by Lilly Husbands

Broadcast

2012 Frankenstein's Moon, BBC Radio 4
2010 The Strand, BBC World Service
2010 Wonders of the Solar System, BBC2
2008 Culture Show interview + screening, BBC2