

ΔE=W (Change in Energy = the Work)

Developed in collaboration with scientists, a sonic architect, tai chi and tantra masters ΔE=W invites participation to collectively explore the energetic relation of people, practice and space through practical exercises and interactive experiments of voice, touch, gaze and spatial harmonics.

Presented at Arnolfini as part of 4 Days, a performance art series, 17-20 January 2013.

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Credits

Curator: Jamie Eastman
Assistant Curators: Lauren Jury and Alastair Cameron
Technicians: Faisal Rahman, Ewen Macleod, Mark Harris, Anton Goldenstein, Charles Farina, Anna Barrett, Jerry Ortmans, Graham Hogge
Documentation: Rhiannon Chaloner, Pat Cullum & Rob Darch, Young Arnolfini
Thankyous: Game volunteers Haniyyah Anwar, Tristan Doug, Rosalind Holgate, Alex Hoskins, Martha King, Holly Mclean, Laura Gwen Miles, Claire Prosser, Alice Vandeleur-Boorer, Tom Wilmot-Josife and Maura Zukina. Helen Davies and Arnolfini's Learning and Participation team, University of Bristol Centre for Public Engagement, Tom Trevor and the staff at Arnolfini, ΔE=W contributors

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Emma Smith

ΔE=W

Steve Boyland
An improvising vocalist, Steve creates vocal performances that respond to the acoustical and allusive resonances of spaces and objects. For ΔE=W Steve will be working with Emma Smith to explore the energetics of voice, resonance and echo.
Gérard Bricogne
X-ray Crystallographer working in Structural Biology and Drug Discovery. For ΔE=W Gérard will be joining Emma Smith in a round table discussion to explore human relation on a molecular level.
Emma Hornby
Presenting a choral performance from Hildegard followed by a talk and discussion on harmony and consonance, Emma is a Senior Lecturer in Music, University of Bristol. Her research focuses on western liturgical chant in the middle ages with particular interests in transmission, orality and the relationship between words and music.
David Glowacki
Researcher, Department of Chemistry, University of Bristol. For ΔE=W David will be joining Emma Smith in a discussion and series of activities to explore the idea of relationship through non-locality.
Embodied Presence
Embodied Presence is run by duo Jamus and Lee. Jamus teaches Movement, Contact Improvisation and Somatic Yoga. Lee is a dancer working in 5 Rhythms and Contact Improvisation. They will run a movement workshop focusing on welcoming and greeting, followed by a discussion.

Ben Milton
Chi Chuan. Ben is a direct lineage 20th generation disciple of Grand Master Chen Xiao Wang and holder of a 5th Degree Duan Wei from the Chinese Mushu Association. For ΔE=W Ben will lead a Tai Chi exercise class followed by a discussion on body energy flow.
Laurence White
Lecturer in the psychology of language, Plymouth University. His research explores spoken language with a particular focus on the rhythm and timing of speech. For ΔE=W Laurence will give a talk on speech rhythm and join Emma Smith and Emma Hornby in a round table discussion.
Jonas Rademacker
Reader in Physics, School of Physics, University of Bristol. His particle physics research focuses on "quark flavor physics", the precision study of quarks, and CP violation, the fundamental difference between matter and antimatter. For ΔE=W Jonas will be joining Emma Smith in a round table discussion.
All aspects of ΔE=W are free entry (no advance booking required). We would really like for you to take part.

For ΔE=W at Arnolfini Emma Smith is converting Gallery 1 on the ground floor into an interactive space for experiments and research. Emma will be working within the gallery throughout this time along with a number of special guest contributors. The public are invited to join the artist in her research and to contribute to practical activities and discussions.
"My work involves performance with a blurring of roles, collapsing the distinction between performer and audience. Within the work, each person contributes as much as they receive. I am interested in creating a process through which people can physically embody or practise the ideas I am working with rather than merely thinking about them.
Knowledge is generated through the work and by collective endeavour. The meaning of this knowledge is entirely dependant on each individual involved, through their own physical application and practice in place. It is through physical embodiment and enactment in a given environment that knowledge becomes real.
The work is a rehearsal more than a performance."
Emma Smith, December 2012
Today we can see that Ryle was right to dismiss the notion of the ghost in the machine – not because there is no ghost but because there is no machine.
Paul Davies and John Gribbin, The Matter Myth
The whole universe is thus engaged in endless motion and activity: in a continual cosmic dance of energy.
Fritof Capra, The Tao of Physics
We were parted many thousands of kalpas ago, yet we have not been separated even for a moment. We are facing each other all day long, yet we have never met.
D. T. Suzuki, The Essence of Buddhism

Friday 18 January

- 11:00 Talk / Reading / Discussion Group led by artist Emma Smith

- 12:00 Experiments in touch and the gaze

- 13:00 Screening / Reading Room

- 14:00 Round table discussion with guests Chrystallographer Dr. Gérard Bricogne and Physicist Dr. Jonas Rademacker

- 15:00 Tai Chi Session with Ben Milton, Bristol School of Tai Chi

- 16:00 Talk / Reading / Discussion Group

- 17:00 End

Saturday 19 January

- 11:00 Public rehearsal and game playing: $\Delta E=W$

- 12:00 Vocal exercises with guest vocalist Steve Boyland

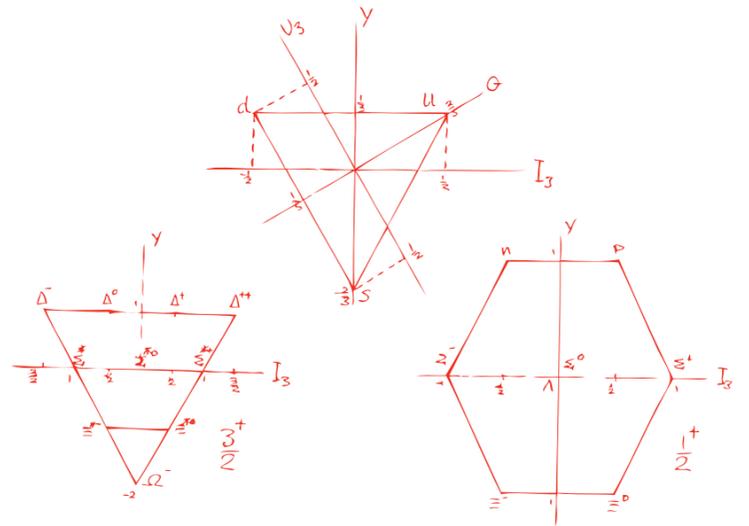
- 13:00 Group Discussion / Screening / Reading Room

- 14:00 Choral Performance, Talk and Discussion with guest Emma Hornby, Senior Lecturer in Music, University of Bristol, followed by a round table discussion and talk with guest Dr. Laurence White, Lecturer in Psychology of Language, Plymouth University.

- 15:30 Vocal exercises with guest vocalist Steve Boyland

- 16:00 Public rehearsal and game playing: $\Delta E=W$

- 17:00 End



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Sunday 20 January

- 11:00 Experiments in touch, the gaze and spatial harmonics

- 12:00 Round Table Discussion with guests: vocalist Steve Boyland and theoretical Chemist David Glowacki, Researcher, University of Bristol.

- 13:00 Screening / Reading Room

- 14:00 Experiments and game playing

- 15:00 Movement session with guests from Embodied Presence

- 16:00 Round table discussion

- 17:00 End

