

# CONTENTS

<i>List of Figures</i>	<i>xi</i>
<i>Preface</i>	<i>xiii</i>
<b>1 Introduction</b>	<b>1</b>
<i>Rolf Hughes and Rachel Armstrong</i>	
1.1 Overview	1
<i>Material knowledge</i>	2
<i>Strengthening knowledge</i>	3
<i>Reconfiguring knowledge</i>	3
<i>Worlding case studies</i>	4
<b>2 Material knowledge</b>	<b>7</b>
<i>Rolf Hughes and Rachel Armstrong</i>	
2.1 Primordial	7
<i>Big Bang origin of the universe</i>	7
<i>Everything is entangled</i>	8
<i>Strangeness of the mind</i>	9
<i>Where does agency reside?</i>	9
<i>Origin of planet Earth</i>	10
<i>Biogenesis</i>	11
<i>First Great Enfolding</i>	13
<i>A new kind of extinction</i>	13
2.2 The first civilisation	14

<b>3</b>	<b>Strengthening knowledge</b>	<b>17</b>
	<i>Rolf Hughes and Rachel Armstrong</i>	
3.1	<i>Origin of human thought</i>	17
	<i>Origin of humans</i>	17
	<i>Origin of human thought and language</i>	18
	<i>Early origins of formal knowledge</i>	20
3.2	<i>Communities of thinking</i>	23
3.3	<i>Development of modern science</i>	28
<b>4</b>	<b>Reconfiguring knowledge</b>	<b>37</b>
	<i>Rolf Hughes</i>	
4.1	<i>Beyond giving an account: the dark continents of research</i>	37
4.2	<i>Epistemology and subjectivity</i>	38
4.3	<i>The formation of artistic research</i>	40
4.4	<i>The description problem in artistic research</i>	42
4.5	<i>The concept of exposition in artistic research</i>	43
4.6	<i>The challenge of evaluating “unconventional” research outcomes</i>	44
4.7	<i>Epistemic plurality</i>	44
4.8	<i>Transverse epistemologies</i>	45
4.9	<i>Epistemic partiality</i>	47
<b>5</b>	<b>Extending knowledge</b>	<b>51</b>
	<i>Rachel Armstrong</i>	
5.1	<i>Organa Paradoxa</i>	51
5.2	<i>Nonhuman dimensions</i>	61
5.3	<i>Worlding experiments</i>	87
	<i>Sym-practices</i>	87
	<i>Symbiosis</i>	87
	<i>Symbiogenesis (endosymbiont hypothesis)</i>	88
	<i>Sympoiesis</i>	90
	<i>Sympathy</i>	92
	<i>An ethics of care</i>	93
	<i>Worlding as an entangled practice</i>	95
	<i>Vulnerability</i>	96
	<i>Imagination</i>	96
	<i>Familiarity</i>	96
	<i>Empathy</i>	96
	<i>Care</i>	96
	<i>Provocation</i>	97
	<i>Repetition</i>	97
	<i>Noninnocent perspectives</i>	98

<b>6</b>	<b>Worlding case studies</b>	<b>111</b>
	<i>Rachel Armstrong and Rolf Hughes</i>	
6.1	<i>Performance</i>	111
	<i>Creature Box</i>	111
	<i>The Capsule of Crossed Destinies</i>	111
	<i>Trace Hall</i>	114
6.2	<i>Artefacts</i>	116
	<i>Brick Dialogues</i>	117
	<i>Caustic Ophelia</i>	117
	<i>Cracked Hermione</i>	120
	<i>Living Architecture</i>	122
	<i>Exploring interfaces</i>	124
	<i>Synthetic ethics</i>	124
	<i>Expressing outcomes</i>	126
	<i>Monsterring: a transdisciplinary method for an unstable world</i>	127
	<i>The Temptations of the Nonlinear Ladder</i>	128
	<i>Making Monsters</i>	130
	<i>Monsters in Utopia</i>	131
	<i>Learning from Landscape: Forging Folklore, Tallinn Tales</i>	133
	<i>From Victoria Tunnel to Quantum Tunnelling</i>	134
	<i>Wicked Home: Sacred Spaces</i>	136
6.3	<i>Toward an ecological era of knowledge exchange</i>	139
<b>7</b>	<b>Conclusion</b>	<b>147</b>
	<i>Rachel Armstrong and Rolf Hughes</i>	
7.1	<i>A new kind of knowledge: Organa Paradoxa</i>	147
7.2	<i>Change making</i>	148
	<i>Developing appropriate tool sets</i>	148
	<i>Establishing new figures for thinking through</i>	149
	<i>Reconfiguring power relations</i>	149
	<i>Expanding the nature of experiment</i>	149
7.3	<i>Activating knowledge</i>	149
<b>8</b>	<b>Epilogue</b>	<b>151</b>
	<i>Rolf Hughes</i>	
8.1	<i>An art of unfolding by Rolf Hughes</i>	151
	<i>Index</i>	153