

Contents

List of Figures	ix
List of Tables	xii
Abstract	xiv
1. Introduction	1
1.1 History of archaeological exploration in Wales	1
1.1.1 Antiquarian period.....	1
1.1.2 Welsh archaeology in the twentieth century.....	3
1.1.3 Welsh archaeology today.....	4
1.1.3.1 Excavations.....	4
1.1.3.2 Historic Environment Record (HER).....	4
1.1.3.3 Prehistoric Funerary and Ritual Monument Survey.....	4
1.1.3.4 Museum collections.....	4
1.2 Research context for this volume.....	5
2. The Study of Neolithic and Bronze Age Funerary and Ritual Practices in Wales: A Critical History of Past Approaches and Interpretative Themes	7
2.1 Chronology.....	7
2.2 Classifying and dating monuments.....	8
2.3 The interpretation of funerary and ritual sites.....	9
2.4 The interpretation of the mortuary record.....	10
2.4.1 Ethnicity, identity and the funerary record.....	11
2.4.2 Treatment of the body	12
2.5 The role of osteology within archaeological research in Wales.....	16
2.6 Summary	17
3. Chronology of Middle Neolithic to Middle Bronze Age Funerary and Ritual Monuments in Wales	19
3.1 Middle Neolithic (c. 3600–2900 BC).....	20
3.1.1 Pit graves	20
3.1.2 Meusydd I timber circle	21
3.1.3 Bryn Celli Ddu stone arc.....	21
3.1.4 ‘Formative’ henges.....	22
3.2 Late Neolithic (c. 2900–2400 cal BC).....	23
3.2.1 Sarn-y-bryn-caled 2 penannular ditched enclosure.....	23
3.2.2 Stone circles: Bryn Gwyn and Dyffryn Lane I.....	23
3.2.3 Dyffryn Lane I henge	23
3.2.4 Passage graves: Bryn Celli Ddu and Barclodiad-y-Gawres.....	24
3.3 Chalcolithic (c. 2500–2200 BC).....	25
3.3.1 Walton Court ditched enclosure	25
3.3.2 ‘Pre-fission’ Beaker burials	25
3.4 Early Bronze Age (c. 2200–1700 BC).....	25
3.4.1 Burial mounds: round barrows and burial cairns	26
3.4.1.1 Inhumation burials.....	26
3.4.1.2 Cremation deposits	28
3.4.1.3 Modelled radiocarbon dates for Early Bronze Age burial mounds	28
3.4.2 Cremation cemeteries.....	38
3.4.3 Circular enclosures: henges, timber circles, pit circles and stone circles.....	39
3.4.3.1 Timber circles	40
3.4.3.2 Henges	40
3.4.3.3 Pit circles	41
3.4.3.4 Stone circles.....	42
3.5 Middle Bronze Age (c. 1700–1200 BC).....	43

3.5.1 Burial mounds	43
3.5.2 Cremation cemeteries	44
3.5.3 Standing stones	44
3.5.4 Stone circle: Penmaenmawr 280	44
3.5.5 Cremation pyres: Pennant Melangell Church	45
3.6 Summary of the chronological sequence	45
4. The Osteological Analysis	47
4.1 The sample of human bone deposits	47
4.2 Inhumations	47
4.2.1 Record sheets	47
4.2.2 Preservation	47
4.2.3 Sex assessment	48
4.2.3.1 Pelvic morphology	48
4.2.3.2 Skull morphology	49
4.2.4 Age-at-death estimation	50
4.2.4.1 Non-adult age-at-death estimation	50
4.2.4.2 Adult age-at-death estimation	51
4.3 Cremation deposits	54
4.3.1 Weight and skeletal representation levels	54
4.3.2 Level of fragmentation	55
4.3.3 Heat-induced bone modifications: bone colours and fracture patterns	55
4.3.4 Skeletal representation	56
4.3.5 Minimum number of individuals (MNI)	56
4.3.6 Sex assessment	56
4.3.7 Age-at-death estimation	57
5. The Analysis of Funerary and Ritual Data	59
5.1 The osteological analysis	59
5.1.1 The sample	59
5.1.2 Preservation levels of inhumations	59
5.1.2.1 Chalcolithic (c. 2500–2200 BC)	59
5.1.2.2 Early Bronze Age (c. 2200–1700 BC)	59
5.1.3 Problems and limitations of the osteological analysis	60
5.2 Dataset of funerary and ritual data	61
5.2.1 Overview of the dataset	61
5.2.2 Limitations of the analysis	61
5.3 Middle Neolithic (c. 3600–2900 BC)	62
5.3.1 Monument types	62
5.3.2 Burial features	62
5.3.3 Deposit types	62
5.3.4 Demography	62
5.3.5 Grave goods	62
5.4 Late Neolithic (c. 2900–2400 BC)	63
5.4.1 Monument types	63
5.4.2 Burial features	63
5.4.3 Deposit types	63
5.4.4 Demography	63
5.4.5 Grave goods	64
5.5 Chalcolithic (c. 2500–2200 BC)	64
5.5.1 Monument types	64
5.5.2 Burial features	64
5.5.3 Deposit types	64
5.5.4 Demography	64
5.5.5 Grave goods	64
5.6 Early Bronze Age (c. 2200–1700 BC)	65
5.6.1 Monument types	65
5.6.1.1 Inhumations	65
5.6.1.2 Cremation deposits	65

5.6.2 Burial features	67
5.6.2.1 Inhumations	67
5.6.2.2 Cremation deposits	68
5.6.3 Deposit types	69
5.6.3.1 Inhumations	69
5.6.3.2 Cremation deposits	69
5.6.4 Demography	70
5.6.4.1 Inhumations	70
5.6.4.2 Cremation deposits	71
5.6.5 Grave goods.....	73
5.6.5.1 Inhumations	73
5.6.5.2 Cremation deposits	76
5.7 Middle Bronze Age (c. 1700–1200 BC)	79
5.7.1 Monument types	79
5.7.2 Burial features	79
5.7.3 Deposit types	80
5.7.4 Demography	80
5.7.5 Grave goods.....	80
5.8 Comparative analysis: changes in funerary and ritual practices across time	81
5.8.1 Monument types	81
5.8.2 Burial features	83
5.8.3 Deposit types	85
5.8.4 Number of individuals represented in burial deposits.....	86
5.8.5 Grave goods.....	87
6. The Analysis of Pyre Technology and Cremation Ritual Data	91
6.1 Middle Neolithic (c. 3600–2900 BC).....	91
6.1.1 Condition of the remains: skeletal representation and heat-induced fractures.....	91
6.1.2 Pyre temperature: bone colours.....	91
6.1.3 Weight.....	92
6.1.4 Fragmentation levels	92
6.2 Late Neolithic (c. 2900–2400 BC).....	93
6.2.1 Condition of the remains: skeletal representation and heat-induced fractures.....	93
6.2.2 Pyre temperature: bone colours.....	93
6.2.3 Weight.....	93
6.2.4 Fragmentation levels	93
6.3 Early Bronze Age (c. 2200–1700 BC)	94
6.3.1 Condition of the remains: skeletal representation and heat-induced fractures.....	94
6.3.2 Pyre temperature: bone colours.....	94
6.3.3 Weight.....	95
6.3.4 Fragmentation levels	95
6.4 Middle Bronze Age (c. 1700–1200 BC)	97
6.4.1 Condition of the remains: skeletal representation and heat-induced fractures.....	97
6.4.2 Pyre temperature: bone colours.....	98
6.4.3 Weight.....	98
6.4.4 Fragmentation levels	98
6.5 Changes in pyre technology across time.....	100
6.5.1 Condition of the remains: skeletal representation and heat-induced fractures.....	100
6.5.2 Pyre temperature: bone colours.....	101
6.5.3 Weight.....	102
6.5.4 Fragmentation levels	102
6.5.5 Animal bones in Middle Neolithic to Middle Bronze Age cremation ritual practices	103
7. Discussion.....	105
7.1 Middle Neolithic (c. 3600–2900 BC).....	105
7.1.1 Single pit graves	105
7.1.2 Circular enclosures	107
7.1.3 Cremation rites	108
7.1.4 Demographics.....	108

7.1.5 Grave good associations.....	108
7.2 Late Neolithic (c. 2900–2400 BC).....	109
7.2.1 Monument types.....	109
7.2.2 Circular enclosures and ritual practices.....	109
7.2.3 Passage graves.....	110
7.3 Chalcolithic (c. 2500–2200 BC).....	110
7.3.1 The burial evidence.....	110
7.3.2 Demographics and grave good associations in ‘pre-fission’ Beaker burials.....	110
7.3.3 ‘Pre-fission’ Beaker burials: migration or diffusion?.....	111
7.3.4 Circular enclosures.....	111
7.4 Early Bronze Age (c. 2200–1700 BC).....	111
7.4.1 Monument types.....	111
7.4.2 Inhumation rites.....	112
7.4.3 Cremation rites.....	114
7.5 Middle Bronze Age (c. 1700–1200 BC).....	116
7.5.1 Monument types.....	116
7.5.2 Cremation pyres.....	116
7.5.3 Circular enclosures.....	116
7.5.4 Cremation rites.....	117
8. Conclusion.....	119
8.1 Deviant but significant? Mortuary rites in the Middle Neolithic to Chalcolithic periods (3600–2200 BC).....	119
8.2 Burying the dead in the Bronze Age in Wales.....	120
8.3 A long-lasting tradition: circular enclosures in prehistoric Wales.....	121
8.4 The problem of tokenism in cremation practices.....	121
8.5 Future avenues of research.....	122
Bibliography.....	125
Appendix A: List of Radiocarbon Dates.....	151
Appendix B: Contextual and Demographic Data Summary Tables.....	158
Appendix C: Pyre Technology and Cremation Ritual Data Summary Tables.....	192