IRAQ

VOLUME XXVI · PART 1 · SPRING 1964

CONTENTS

EDITORIAL	1
MORE DRAWINGS OF ASSURBANIPAL SCULPTURES by J. E. READE	I
ANOTHER BABYLONIAN CHRONICLE TEXT by a. r. millard	14
SPIRAL-END BEADS IN WESTERN ASIA by w. culican	36
A "LURISTAN" DAGGER: AN EXAMINATION OF ANCIENT METALLURGICAL TECHNIQUES by J. BIRMINGHAM, N. F. KENNON AND A. S. MALIN	44
A NOTE ON THE SIGNIFICANCE OF THE TECHNIQUE OF 'CASTING ON' AS APPLIED TO A GROUP OF DAGGERS FROM NORTH-WEST PERSIA by K. R. MAXWELL-HYSLOP AND H. W. M. HODGES	50
THE EXCAVATIONS AT YANIK TEPE, AZERBAIJAN, 1962: THIRD PRELIMINARY REPORT by c. a. burney	54

PUBLISHED BY THE

BRITISH SCHOOL OF ARCHAEOLOGY IN IRAQ

(GERTRUDE BELL MEMORIAL), Institute of Archaeology, 31-34, Gordon Square, London, W.C.1. Price 355. net. Annual Subscription £2 55.

IRAQ

is published by the British School of Archaeology in Iraq (Gertrude Bell Memorial). It is devoted to studies of the history, art, archaeology, religion, and social life of Iraq, and to a lesser degree of the neighbouring countries (Iran, Armenia, Anatolia, Syria, and Arabia), from the earliest times down to about A.D. 1700. Texts concerning these subjects, with translations and comments, will be considered; exclusively philological articles will not be accepted.

CONTRIBUTORS are requested to submit for illustration only clear prints of photographs or strong outline drawings. For oriental languages, transliteration into Roman script on the approved system should be employed, as laid down in the 'Notice to Contributors,' which will be sent on application. Articles should be sent to the Editors of 'Iraq,'

Professor M. E. L. MALLOWAN, C.B.E., M.A., D.LIT., F.B.A., F.S.A., All souls college, oxford.

or Professor D. J. WISEMAN, O.B.E., M.A., F.S.A., school of oriental and african studies, university of london, w.c.1.

IRAQ normally appears twice yearly, in the Spring and Autumn. Annual subscription for two parts of current volume 45s. prepaid. Single parts of current volume 35s. Back volumes (comprising two parts) £4. Single parts of back volumes £2, postage extra. An order form is printed on the back of the page opposite.

For the year 1960, *IRAQ* was published as a single volume (instead of in two parts) entitled "Ur in Retrospect," and dedicated to the memory of Sir Leonard Woolley.

IRAQ

VOLUME XXVI

PUBLISHED BY THE BRITISH SCHOOL OF ARCHAEOLOGY IN IRAQ (GERTRUDE BELL MEMORIAL), Institute of Archaeology, 31-34 Gordon Square, London, W.C.1

1964

CONTENTS

	PAGE
MORE DRAWINGS OF ASSURBANIPAL SCULPTURES, by J. E. Reade	I
ANOTHER BABYLONIAN CHRONICLE TEXT, by A. R. Millard	14
SPIRAL-END BEADS IN WESTERN ASIA, by W. Culican	36
A "LURISTAN" DAGGER: AN EXAMINATION OF ANCIENT METAL- LURGICAL TECHNIQUES, by J. Birmingham, N. F. Kennon and A. S. Malin	
A NOTE ON THE SIGNIFICANCE OF THE TECHNIQUE OF 'CASTING ON' AS APPLIED TO A GROUP OF DAGGERS FROM NORTH-WEST PERSIA, by K. R. Maxwell-Hyslop and H. W. M. Hodges	
THE EXCAVATIONS AT YANIK TEPE, AZERBAIJAN, 1962: THIRD PRE- LIMINARY REPORT, by C. A. Burney	54
NOAH'S FLOOD RECONSIDERED, by M. E. L. Mallowan	62
THE "PLANO-CONVEX BUILDING" AT KISH AND EARLY MESOPO- TAMIAN PALACES, by P. R. S. Moorey	83
GILGAMESH X: A NEW FRAGMENT, by A. R. Millard	99
THE IRAQI SECTION OF THE ABBASID ROAD MOSUL-NISIBIN, by J. M. Fiey	106
FRAGMENTS OF HISTORICAL TEXTS FROM NIMRUD, by D. J. Wiseman	118
AN ADDITIONAL REMARK ON THE KURBA'IL STATUE OF SHALMA- NESER III, by R. Borger	125

LIST OF PLATES

											PA	GE
I–V.	Assurbanipal S	sculptures	••	••		••	••	••	••	••	after	r 6
I.	a. Room F, sla	ab 15	••	••	•••	••	••		••		,,	6
	b. Room G, sl	abs 3-5		••	••	••	••	••	••	••	"	6
11.	Room I, door	way <i>a</i> , slab I	••	••	•••	••	••	•••	••	•••	,,	6
ш.	a. Room I, sla	b 5 and part of	slab 6	••			••		••	••	"	6
	b. Room I, sla	b 7 and the res	t of slal	b 6	••	••	••	••	••	••	"	6
IV.	a. Room I, sla	bs 9 and 10			••		••				"	6
	b. Room M, sl	lab 7	••			••	••	••	••	••	"	6
v.	a. Room M, sl	abs 19 and 20			••				••		"	6
	b. Room M, sl	-	••	••	••	••	••	••		••	» »	6
VI.	The Chronicle	Tablet B.M.96	273	•••		•••	•••	••	••	fac	ing	19
VII.	B.M.96273, Co	ору	••	••	•••		••	••	••		,,,	35
VIII.	a. Necklace fro	om Ziwiyeh, Ci	ncinna	ti Art N	Auseun	n						41
		om Amlash, Te					ım				»»	41 41
IX.	Necklace from	Amlash, Teher	ran Arc	haeolo;	gical M	luseum	••	••		••	,,	42
X.	1. General vie	w of dagger as	receive	ed	••		••				,,	45
		ure of cast hilt			us, cor	ed grai	ns	••	••	••	,, ,,	45
	3. Microstruct	ure of cast hilt	showin	ng dege	nerated	l eutect	oid at	the gra	in bou	ndaries	,,	45
	4. Microstruct	ure of cast hilt	showin	ng free	copper	segreg	ates	••	••	••	,,	45
XI.	1. Microstruct	ure of blade sh	owing	elongat	ed non	-metall	ic inclu	sions	••		,,	46
XI. 1. Microstructure of blade showing elongated non-metallic inclusions2. Microstructure of blade showing region of localised deformation near cutting edge									,,	46		
	3. Microstruct	ure of blade-sh	oulder	junctio	n	••	•••	••	••	••	"	46
	4. Microstruct	ure of blade-sh	oulder	junctio	n show	ving rec	rystalli	sation	••	••	,,	46
XII.	1. Bronze dag	ger, United Sta	tes Nat	ional N	fuseum	1		••	••	••	"	51
		of 1. showing					blade	••		••	,,	51
	3. Bronze dag	ger, handle and	blade	a single	castin	g			••	••	,,	51
	5. Inscribed b	ronze dagger	••	••	••	••	••			••	,,	\$1
	6. Iron (or ste	el) sword from	Deve l	Hüyük,	near C	Carchen	nish	••	••	••	,,	5 I
XIII.	a. Level P 11										"	59
	b. Level P. 9			••		••		•••			"	59
	c. Level HX (••			••	••	••	••		,,	59
XIV.	a. Level L 5				••							60
	b. Level L 4						••		••	••	"	60 60
	c. Level K 3		••	••	••	•••	••	••		••	" "	60
XV.		Yanik Tepe, 19	62	••		••				••	"	61
XVI	a. Ur. Pit X.	The pit compl	eted									
	b. Ur. Pit F.	At work at 8m			••	••	••	••	••	••	"	71 71
								-	-		22	

LIST OF PLATES

PAGE

XVII.	Ur. Section through the Flood Pit F	••	••		••	••	••	••	.,	72
XVIII.	Map of Sumer	••	••	••	••		••	••	"	75
XIX.	The 'Y' Sounding at Kish 1928-9	••	••		••	••	••	••	"	78
XX.	Table Indicating Floods Related to A	rchaeo	logical	Seque	nces			••	"	82
XXI.	The Plano-convex Building		••	••	••		••	••	,,	86
XXII.	a. The circular features in course of	excavat	tion		••		••	••	"	87
	b. Miniature limestone pyramids	••	••	••	••	••	••	••	"	87
XXIII.	Headless limestone statue		••			••	••	••	"	88
XXIV-XXV.	Pottery from the Plano-convex build	ing	••	••	••	••		•••	after	98
XXVI-XXVII.	Fragments of Historical Texts from I	Nimruo	ł	••	••	••	••	••	"	124

LIST OF ILLUSTRATIONS IN THE TEXT

PAGE More Drawings of Assurbanipal Sculptures Plan of Ashurbanipal's Palace at Nineveh 13 Another Babylonian Chronicle Text Fig. 1. The colophon of K.2411 •• •• .. 21 Spiral-end Beads in Western Asia Fig. 1. Gold beads from Kurgan 1, Lschasen.. .. 38 Fig. 2. Gold dress ornaments from Ziwiyeh ... ••• 40 . . Fig. 3. Bronze chariot mount from Kurgan 3, Lschasen ... •• 43 A "Luristan" Dagger Fig. 1. Diagram of dagger to scale •• · • • ••• .. 45 Fig. 2. Sketch of hilt, showing location of clayey core •• •• ... •• • • 48 A Note on the Significance of the Technique of ' Casting On' Fig. 1. Daggers with flanged handles and cast on parts • • • • 51 ••• The " Plano-convex Building " at Kish Fig. 1. Fragment of incised tridachna shell ... • • 97 . . ۰. The Iraqi Section of the Abbasid Road Mosul-Nisibin .. Fig. 1. Map •• 107 •• •• Fig. 2. Chart of distances between stages .. •• • • . . 114

THE BRITISH SCHOOL OF ARCHAEOLOGY IN IRAQ

(GERTRUDE BELL MEMORIAL)

President THE RIGHT HONOURABLE LORD SALTER, P.C., G.B.E., K.C.B.

> Vice-President SIR ROGER ALLEN, K.C.M.G.

Founders

THE LATE MISS GERTRUDE BELL THE LATE SIR CHARLES HYDE, BART. MRS. M. E. L. MALLOWAN, C.B.E., HON.D.LITT.(EXON), F.R.S.L.

THE LATE SIR HUGH BELL, BART. THE LATE SIR HENRY WELLCOME THE LATE MRS. WILLIAM H. MOORE

Chairman SIR JOHN TROUTBECK, G.B.E., K.C.M.G.

Vice-Chairmen

C. J. EDMONDS, C.M.G., C.B.E. PROFESSOR M. E. L. MALLOWAN, C.B.E., M.A., D.LIT., F.B.A., F.S.A.

> Honorary Treasurer G. E. DENT, 18–22 Abchurch Lane, London, E.C.4

Honorary Secretary MISS G. C. TALBOT, M.A. Institute of Archaeology, 31-34 Gordon Square, London, W.C.1

Joint-Directors

D. OATES, M.A., F.S.A. Trinity College, Cambridge

PROFESSOR D. J. WISEMAN, O.B.E., M.A., F.S.A. School of Oriental and African Studies, Malet Street, London, W.C.1

Secretary-Librarian (in Iraq)

J. J. ORCHARD, M.A. British School of Archaeology, 76/1 Karradet Mariam, Baghdad

Editors of "Iraq"

PROFESSOR M. E. L. MALLOWAN, C.B.E., M.A., D.LIT., F.B.A., F.S.A. PROFESSOR D. J. WISEMAN, O.B.E., M.A., F.S.A.

ORDER FORM

To the british school of archaeology in Iraq, 31-34 Gordon square, london, w.c.i.

 $\mathbf{P}_{\text{LEASE}}$ supply IRAQ, beginning with the $\frac{\text{Spring}}{\text{Autumn}}$ Number 19

I ENCLOSE {*remittance for £, *Banker's order Description and name...... Address Date...... * Delete one of these two lines.

ORDER TO BANKERS FOR ANNUAL PAYMENT

To Messrs......

 $\mathbf{P}_{\text{LEASE}}$ place to the credit of the British School of Archaeology in Iraq, at the Ottoman Bank, 18 Abchurch Lane, E.C.4, on receipt of this order, and annually on 1st January until I cancel this order, the sum of two pounds five shillings (£2 5..)

 Signature
 Description

 Description
 Address

 Address
 Date

 Date
 This form when complete to be sent to the British School of Archaeology in Irag

This form when complete to be sent to the British School of Archaeology in Iraq, 31-34 Gordon Square, London, W.C.1, NOT to the Bank.