

THE AUSTRALIAN MUSEUM MAGAZINE

EDITED BY
C. ANDERSON, M.A., D.Sc., C.M.Z.S.
DIRECTOR

VOLUME V
1933-1935



SYDNEY:

Published Quarterly by
THE TRUSTEES OF THE AUSTRALIAN MUSEUM

1933-1935

THE AUSTRALIAN MUSEUM

HYDE PARK, SYDNEY

BOARD OF TRUSTEES

PRESIDENT :

F. S. MANCE.

CROWN TRUSTEE :

JAMES MCKERN.

OFFICIAL TRUSTEES :

HIS HONOUR THE CHIEF JUSTICE.

THE HON. THE PRESIDENT OF THE LEGISLATIVE COUNCIL.

THE HON. THE COLONIAL SECRETARY.

THE HON. THE ATTORNEY-GENERAL.

THE HON. THE COLONIAL TREASURER.

THE HON. THE SECRETARY FOR PUBLIC WORKS.

THE HON. THE MINISTER OF PUBLIC INSTRUCTION.

THE AUDITOR-GENERAL.

THE PRESIDENT OF THE NEW SOUTH WALES MEDICAL BOARD.

THE SURVEYOR-GENERAL AND CHIEF SURVEYOR.

THE CROWN SOLICITOR.

ELECTIVE TRUSTEES :

G. H. ABBOTT, B.A., M.B., CH.M.

F. S. MANCE.

E. C. ANDREWS, B.A., F.G.S.

THE HON. F. E. WALL, M.D., M.L.C.

GORRIE M. BLAIR.

PROF. A. N. ST. G. BURKITT, M.B., B.Sc.

C. GORDON MACLEOD, M.A., M.D., CH.M.

THE HON. H. M. HAWKINS, M.L.C., F.R.E.I., F.I.L.V.

G. A. WATERHOUSE, D.Sc., B.E., F.R.E.S.

PROF. W. J. DAKIN, D.Sc., F.L.S., F.Z.S., F.R.Z.S.

FREDRICK W. MARKS, F.C.A. (AUSTR.).

MAJ.-GEN. SIR CHARLES ROSENTHAL, K.C.B., C.M.G., D.S.O., V.D.

DIRECTOR :

CHARLES ANDERSON, M.A., D.Sc., C.M.Z.S.

SECRETARY :

W. T. WELLS, A.I.A.V.

SCIENTIFIC STAFF :

Mineralogy and Petrology.

T. HODGE-SMITH.

R. O. CHALMERS, A.S.T.C.

Palaeontology.

C. ANDERSON, M.A., D.Sc.

H. O. FLETCHER.

Lower Invertebrates.

F. A. MCNEILL.

A. A. LIVINGSTONE.

W. BOARDMAN.

Conchology.

TOM IREDALE.

JOYCE K. ALLAN.

Entomology and Arachnology.

ANTHONY MUSGRAVE, F.R.E.S.

K. C. MCKEOWN.

Ichthyology.

GILBERT P. WHITLEY.

Amphibia, Herpetology, and Ornithology.

J. R. KINGHORN, C.M.Z.S.

Mammalogy and Osteology.

ELLIS LE G. TROUGHTON.

Anthropology and Ethnology.

ELSIE BRAMELL, M.A., Dip.Ed.

F. D. McCARTHY, Dip. Anthr.

LIBRARIAN :

W. A. RAINBOW.

PREPARATORIAL STAFF :

G. C. CLUTTON, *Chief Articulator.*

H. S. GRANT, *Chief Taxidermist.*

HONORARY SCIENTIFIC STAFF :

Zoologists.

PROF. T. HARVEY JOHNSTON, M.A., D.Sc.

EDWARD F. HALLMANN, B.Sc.

PROF. E. A. BRIGGS, D.Sc.

H. LEIGHTON KESTEVEN, D.Sc., M.D.

MELBOURNE WARD.

Ornithologists.

A. F. BASSETT HULL, M.B.E., F.R.Z.S.

K. A. HINDWOOD.

A. J. MARSHALL.

Entomologists.

G. A. WATERHOUSE, D.Sc., B.E., F.R.Z.S.

H. J. CARTER, B.A., F.R.E.S.

T. H. GUTHRIE.

W. W. FROGGATT.

Archaeologist.

GEORGE A. THOMAS.



CONTENTS

| No. 1, JANUARY-MARCH, 1933. | Page. |
|---|--|
| Our Native Slug..... | JOYCE ALLAN 3 |
| Collecting on the Murrumbidgee..... | 6 |
| Areca, Betel and Lime..... | F. D. McCARTHY 7 |
| Aquatic Insects..... | K. C. McKEOWN 14 |
| Biographical Notice of Dr. T. Storie Dixson..... | 21 |
| The Maternal Instinct in Insects..... | K. C. McKEOWN 23 |
| The Natural History of Rarotonga..... | G. P. WHITLEY 25 |
| Reviews..... | 31 |
| Some Aboriginal Beliefs and Customs..... | A. W. BUCKNELL 33 |
| No. 2, APRIL-JUNE, 1933. | |
| Shells in the Waterhouse Collection..... | JOYCE ALLAN 39 |
| George Tobin, a Neglected Naturalist..... | G. P. WHITLEY 44 |
| Special Exhibits..... | 50 |
| Sea-Stars and their Allies..... | A. A. LIVINGSTONE 51 |
| Silk Culture..... | K. C. McKEOWN 57 |
| The Collection of Coins and Medals..... | 63 |
| Leeches..... | W. BOARDMAN 64 |
| Ernst Johannes Schmidt—An Appreciation..... | G. P. WHITLEY 70 |
| Reviews | 72 |
| No. 3, JULY-SEPTEMBER, 1933. | |
| Feast and Ceremonial in Native Life..... | ELSIE BRAMELL, B.A. 75 |
| The Broken Hill Proprietary Block 14 Company, Limited, Mineral Collection | |
| | T. HODGE-SMITH 81 |
| An Aboriginal Art Gallery..... | M. STARK 85 |
| Bird Economics..... | J. R. KINGHORN 88 |
| Silk and its Economics..... | K. C. McKEOWN 90 |
| Some Household Insect Pests, Part I..... | A. MUSGRAVE, F.E.S. 97 |
| Through Tropic Queensland..... | A. J. MARSHALL, R.A.O.U. 102 |
| No. 4, OCTOBER-DECEMBER, 1933. | |
| Scarlet Honeyeaters..... | Front Cover |
| A Recently Acquired Collection of Minerals..... | T. HODGE-SMITH 111 |
| Coral and the Great Barrier Reef..... | F. A. MCNEILL 113 |
| The Oldest Human Implements and Their Discoverer..... | F. CHAPMAN, A.L.S., F.G.S. 118 |
| The Poisonous Spiders of Australia..... | DR. W. WILSON INGRAM and A. MUSGRAVE, F.R.E.S. 121 |
| Frogs and Toads..... | J. R. KINGHORN, C.M.Z.S. 126 |
| Some Household Insect Pests, Part II..... | A. MUSGRAVE, F.R.E.S. 130 |
| Impressions of Tasmania..... | K. C. McKEOWN 137 |
| Reviews | 125, 129, 135 |
| No. 5, JANUARY-MARCH, 1934. | |
| Banksian Cockatoo..... | Front Cover |
| Tyrian Purple: An Ancient Industry..... | JOYCE ALLAN 147 |
| Reviews | 151, 180 |
| The Cuddie Springs Bone Bed..... | C. ANDERSON, M.A., D.Sc., C.M.Z.S., and H. O. FLETCHER 152 |
| Australian Wood Moths..... | NANCY B. ADAMS 159 |
| Wild Nature in North Australia..... | CHARLES BARRETT, C.M.Z.S. 163 |
| The Mighty Polyp..... | F. A. MCNEILL 170 |
| The Mid-North Coast..... | R. O. CHALMERS, A.S.T.C. 173 |
| Ethnological Notes..... | 179 |
| No. 6, APRIL-JUNE, 1934. | |
| Gouldian Finches..... | Front Cover |
| Crane-Flies or "Daddy Longlegs"..... | NANCY B. ADAMS 183 |
| The Lotus Bird..... | K. A. HINDWOOD, R.A.O.U. 186 |
| Rossel Island Money: A Unique System..... | GERALD DILLON 191 |
| Some Central Australian Mammals..... | H. C. BARRY 194 |
| The Australian Aboriginal from Infancy to Parenthood..... | F. D. McCARTHY 199 |
| The Sea Serpent and its Kind..... | C. ANDERSON, M.A., D.Sc., C.M.Z.S. 204 |
| The First Naturalists in Australia..... | G. P. WHITLEY 209 |
| Review | 216 |

CONTENTS

No. 7, JULY-SEPTEMBER, 1934.

| | Page, Front Cover |
|---|------------------------------|
| Willy Wagtail..... | 219 |
| Museum Buildings..... | 220 |
| Silk from Shells: An Ancient Industry..... | JOYCE ALLAN 220 |
| Fishes and Flowers..... | G. P. WHITLEY 223 |
| Tektites..... | T. HODGE-SMITH 225 |
| A Tasmanian Flaked Axe of Unusual Size..... | ELSIE BRAMELL, B.A. 228 |
| Piccaninnies of the "Centre"..... | H. C. BARRY 229 |
| The Food of Trout..... | K. C. McKEOWN 233 |
| Reviews..... | 236 |
| Stilbite Collecting at Garrawilla..... | R. O. CHALMERS, A.S.T.C. 240 |
| Fighting and Strategy—How Birds defend their Homes..... | A. H. CHISHOLM 246 |
| The Bamboo in Australia..... | W. S. CAMPBELL 251 |

No. 8, OCTOBER-DECEMBER, 1934.

| | Front Cover |
|--|--|
| The Sugar Glider..... | Front Cover |
| A Mirror from the Temple of a Thousand Ages, Peiping, China..... | F. D. McCARTHY 255 |
| Marsupial Gliders or "Flying Possums"..... | E. LE G. TROUGHTON 257 |
| The Beaks of Birds..... | J. R. KINGHORN, C.M.Z.S. 265 |
| Tattooing of the Motu Tribe, Papua..... | ROLAND V. OLDHAM 269 |
| Ichthyosaurs..... | C. ANDERSON, M.A., D.Sc., C.M.Z.S. 273 |
| Australian Shells: Slit Shells and False Limpets..... | JOYCE ALLAN 277 |
| Sir Tannatt William Edgeworth David..... | 283 |
| Locusts and Grasshoppers..... | NANCY B. ADAMS 286 |

No. 9, JANUARY-MARCH, 1935.

| | Front Cover |
|--|--------------------------------------|
| Gillbird or Wattle Bird..... | Front Cover |
| Some Fishes of the Sydney District..... | G. P. WHITLEY 291 |
| Obituary—William Sutherland Dun..... | 304 |
| Trilobite Hunting in the North..... | H. O. FLETCHER 305 |
| Reviews..... | 312, 319 |
| The Largest Gliders or "Flying Possums"..... | E. LE G. TROUGHTON 314 |
| Australian Shells: Ear-Shells and Wide-Mouthed Shells..... | JOYCE ALLAN 320 |
| The Spear Thrower..... | Photograph by CAPTAIN F. HURLEY 325 |
| A Manus House, Admiralty Islands..... | Photograph by DR. R. FORTUNE 326 |
| Native Girls, New Guinea..... | Photography by CAPTAIN F. HURLEY 327 |
| Basket Making, Cape York..... | Photograph by MISS U. MCCONNEL 328 |

No. 10, APRIL-JUNE, 1935.

| | Front Cover |
|--|-----------------------------------|
| Fantailed Cuckoo..... | Front Cover |
| Australian Shells: Top, Turban, Pheasant and Dolphin Shells..... | JOYCE ALLAN 331 |
| Ernest Wunderlich, F.R.A.S..... | 340 |
| The Fish and the Ring: In Fable and Fact..... | G. P. WHITLEY 341 |
| The Adventures of a Tobacco Tin..... | T. HODGE-SMITH 345 |
| Hawk Moths..... | NANCY B. ADAMS 346 |
| Caloundra: A Naturalists' El Dorado..... | A. E. J. THACKWAY 350 |
| Review..... | 353 |
| Fishing in Tanga..... | F. L. S. BELL, M.A., F.R.A.I. 355 |
| Wonders of the Ant World: Part I..... | K. C. McKEOWN 360 |

No. 11, JULY-SEPTEMBER, 1935.

| | Front Cover |
|--|--|
| Whistler or White-Throated Thickhead..... | Front Cover |
| Darwin in Australia..... | C. ANDERSON, M.A., D.Sc., C.M.Z.S. 367 |
| Obituary—Mrs. M. J. Waterhouse..... | 372 |
| A Reptilian Combat..... | 373 |
| A Shield Tree..... | F. D. McCARTHY 375 |
| The Life and Uses of Bêche-de-Mer..... | A. A. LIVINGSTONE 377 |
| Wonders of the Ant World: Part II..... | K. C. McKEOWN 380 |
| The Story of Money..... | F. D. McCARTHY 386 |
| Shellfish Poisoning..... | 393 |
| The Rat Problem of the Cane Fields..... | 394 |
| Australian Shells: The Liotias, Wheel Shells, Nerites, Cap, Sugar and True Limpets | JOYCE ALLAN 395 |

No. 12, OCTOBER-DECEMBER, 1935.

| | Front Cover |
|---|--|
| Frogmouth..... | Front Cover |
| The Sydney District a Hundred Million Years Ago..... | C. ANDERSON, M.A., D.Sc., C.M.Z.S. 403 |
| The Whitsunday Isles..... | A. J. MARSHALL, R.A.O.U. 414 |
| Egyptological Additions to our Collections..... | 418 |
| Australian Shells: The Winks, Rissoids, Rissoinids, and Stump Shells..... | JOYCE ALLAN 420 |
| Law and Order among the Australian Aborigines..... | ELSIE BRAMELL, M.A. 425 |
| Reviews..... | 430, 435 |
| Spiders and Fish..... | K. C. McKEOWN 431 |