

The North of England  
Zoological Society.



ANNUAL REPORT  
AND  
BALANCE SHEET

1950.

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Miss Gwen Pain, fourth from left, with guests at the official opening of the new Polar Bear Enclosure, on 14th July, 1950.



Peter Scott, the well known ornithologist, introducing a lion cub to a zebra at Chester Zoo.

## ANNUAL GENERAL MEETING.

YEAR ENDED 31st DECEMBER, 1950.

The Council has pleasure in presenting the seventeenth Annual Report to the General Meeting of the Society, to be held on Saturday, May 5th, 1951, at 4 p.m., at the Offices of the Society, in the Gardens, Chester.

### PROCEDURE AT THE ANNUAL GENERAL MEETING.

As laid down in the Articles and Memorandum of Association.

The course of proceeding at the Annual General Meeting, after the Chair has been taken, shall be as follows:—

- (a) The reading of the Minutes of the previous Annual General Meeting.
- (b) The appointment of Scrutineers and the opening of the Ballot for the election of members of the Council.
- (c) Presentation of the Income and Expenditure Account and Balance Sheet and the Auditor's Report thereon.
- (d) Discussion of the Auditor's Report.
- (e) Presentation of the Council's Report.
- (f) Discussion of the Council's Report.
- (g) Receiving the Report of the Scrutineers on the result of the Ballot.

No other business shall be transacted at such Meeting.

### MEMBERS OF THE COUNCIL—1950.

G. B. GROUNSELL (CHAIRMAN).

MISS G. M. RUSSELL-ALLEN.

W. P. BLAND.

MISS A. L. BULLEY.

H. E. EVANS.

A. F. HOLDEN.

A. C. JOHNSON.

T. MASSEY.

F. MOSFORD.

H. F. PARKER.

DR. J. F. WILKINSON.

A. A. W. WATERS.

LT. COL. A. C. ALAN-WILLIAMS.

### DIRECTOR-SECRETARY.

G. S. MOTTERSHEAD.

## REPORT OF THE COUNCIL.

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The Council are happy to be in a position to report that once again the Society is able to show substantial headway has been made. Attendance figures during 1950 show an increase of 95,291, compared with 1949. During the year a considerable amount of work has been done in the Zoo and the accommodation for the collection has been greatly improved. Perhaps the most outstanding development has been the construction of the new Polar Bear enclosure on what, for quite a long while, had been a very unsightly spot. This enclosure was built mainly out of road blocks and pill boxes, into which have been woven sandstone obtained by the Society from a local estate. The finished result is such that we feel justified in claiming this to be one of the best Polar Bear enclosures in any zoo. Several new ideas were introduced in the building of the enclosure, the most noteworthy being a device to ensure that the bears always have clear well aerated water in their pool. To accomplish this a pump was installed which circulates the water at a rate of approximately 23,000 gallons per hour. A large amount of this water is driven outside the enclosure itself and is exposed to all the elements of a natural pool. We have proved that this procedure helps considerably in reducing to a minimum that enemy of all concrete pools "algae". Since water was first introduced into the enclosure in April and May, 1950—apart from the constant trickle of fresh water—this has not been changed and is still perfectly clear—which demonstrates the efficiency of the new arrangement.

The Tiger enclosure, also constructed during 1950, stands to the west of the Polar Bear enclosure and also contains a pool for the animals to bathe in during the summer.

A further big improvement to the Zoo has been the construction of a Zebra House on the north side of the lake—the House itself was completed in four months and the animals

were transferred into it on 31st December, 1950. This building contains ten loose boxes and these will lead eventually to outside enclosures for the animals. The building has been constructed almost entirely of sandstone, similar to that used for the Polar Bear enclosure and from the same source. This sandstone tends to give buildings a very mellow appearance and is not nearly so conspicuous as concrete.

In the past we have been very short of adequate toilet accommodation and accordingly, early in the year, plans were drawn up and a licence to build was sought. As we already had so much work on hand ourselves it was decided to employ the services of a builder who estimated that the work could be completed and ready for use by August. The licence was granted and construction started, but we are sorry to have to report that the builder's estimate was quite wrong and by the end of the year the building was a long way from completion. However, both Ladies and Gents' Toilets, together with a large cloakroom, will be in use by Easter 1951 and will no doubt, prove a great convenience to the public. In this connection members will perhaps be interested to know that it is hoped to have on hire from this cloakroom, bath chairs as well as the push chairs, which were available to the public for the first time during the summer of 1950.

Among many minor alterations, the Elephant stand was considerably enlarged to accommodate the two elephants loading at once. We are also pleased to be able to report that "Barbar" has been successfully broken in and was used quite a lot for giving rides during 1950.

Much new equipment for the Zoo, was purchased during the year, which will facilitate the handling of the larger crowds confidently expected this year.

During 1950 it is estimated that the Zoo acquired more animals than at any one particular period of its life, which has greatly enhanced our standing and brought our collection into favourable comparison with other first class Zoos in the

country. The most notable purchase has undoubtedly been that of three giraffes, and these lovely specimens are at present doing twelve months quarantine at London Zoo. They are due to arrive in Chester during August 1951. Other principal additions have been an increase in the stock of chimpanzees, five of which arrived in June 1950, bringing our total number of these specimens to eight. It will be noticed that a detailed list of the Society's collection, has been included this year.

Whilst never losing sight of the importance of increasing and improving the attraction of our collection, we have not overlooked the development of the horticultural side of the Gardens and this winter we have constructed a rose garden with a fountain centre-piece. Lying to the north of the Parrot House, the new garden will, we feel sure, be appreciated as a lovely place in which to pause and rest awhile, during a visit to the Zoo.

As members will be aware, after prolonged negotiations with the Board of Trade, it was finally possible to call an Extraordinary General Meeting on 1st July, to pass the Society's new Memorandum and Articles of Association, in connection with the omission of the word "Limited" from our title. A Certificate of Change of Name was finally granted to the Society on 3rd August, 1950.

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#### THE MEMBERSHIP OF THE SOCIETY

ON 31st DECEMBER, 1950, was made up as follows:

PATRONS .....	6
LIFE MEMBERS .....	9
ANNUAL MEMBERS .....	171
ASSOCIATE MEMBERS.....	6
HONORARY FELLOWS.....	7

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Total 199

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ANIMALS IN THE GARDENS  
ON 31st DECEMBER, 1950.

CLASS MAMMALIA.

ORDER PRIMATES.

FAMILY ANTHROPOPITHECUS.

A. Niger ..... Chimpanzee.

FAMILY CERCOPITHICIDÆ.

Cercopithecus Callitrichus ..... Green Monkey.  
Dercopithecus Campbellei ..... Campbell's Monkey.  
Cercopithecus Mona ..... Mona Monkey.  
Cercopithecus Schmidtii ..... Putty-Nosed Monkey.  
Cerecocebus Aethiops ..... White-Crowned Mangabey.  
Papio Papio ..... Guinea Baboon.  
Papio Leucophaeus ..... Drill.  
Macacus Cynomolgus ..... Crab Eateing Macaque.  
Macacus Rhesus ..... Rhesus Macaque.

FAMILY CEBIDÆ.

Cebus Fatuellus ..... Brown Capuchin Monkey.

FAMILY LEMURIDÆ.

Lemur Catta ..... Ring-Tailed Lemur.

FAMILY HAPALIDÆ.

Hapalidæ Jacchus ..... Common Marmoset.

FAMILY PERODICTICUS.

Perodicticus Potto ..... Bosman's Potto.

ORDER CARNIVORA.

FAMILY FELIDÆ.

Felis Leo ..... Lion.  
Felis Tigris ..... Tiger.  
Felis Pardus ..... Leopard.  
Felis Concolor ..... Puma.  
Cynœlurus Jubatus ..... Cheetah.

FAMILY HYAENIDÆ.

Hycœna Crocuta ..... Spotted Hyæna.  
Hycœna Striata ..... Striped Hyæna.

FAMILY CANIDÆ.

Canis Dingo ..... Dingo.  
Canis Latrans ..... Coyote.  
Canis Familiaris ..... Husky.

## FAMILY PROCYONIDÆ.

Procyon Lotor ..... Racoon.

## FAMILY URSIDÆ.

Ursus Arctos ..... Brown Bear.  
 Ursus Torquatos ..... Himalayan Bear.  
 Ursus Malayanus ..... Malayan Sun Bear.  
 Ursus Maritimus ..... Polar Bear.  
 Ursus Arctos x ..... Hybrid, European x  
 Ursus Americanus ..... American Black Bear.

## FAMILY OTARIIDÆ.

Otaria Gillespii ..... Sea Lion.

## ORDER UNGULATA.

## SUB-ORDER PROBOSCIDÆ.

## FAMILY ELEPHANTIDÆ.

Elephas Indicus ..... Indian Elephant.  
 Elephas Indicus ..... Burmese Elephant.

## FAMILY GIRAFFIDÆ.

Giraffa Camelpardalis ..... Giraffe.

## FAMILY EQUIDÆ.

Equus Burchelli ..... Burchell's Zebra.  
 Equus Burchelli Chapmani ..... Chapman's Zebra.  
 Equus Burchelli Granti ..... Grant's Zebra.  
 Equus Grevyi ..... Grevy Zebra.  
 Domestic ..... Donkey.

## FAMILY CAMELIDÆ.

L. Glama ..... Llama.

## FAMILY TAPIRIDÆ.

Tapirus Americanus ..... Tapir.

## FAMILY CERVIDÆ.

Cervus Axis ..... Axis Deer.  
 Cervus Dama ..... Fallow Deer.

## FAMILY BOVIDÆ.

Ovis Aries ..... Soay Sheep.  
 Capra Hircus ..... Goat.  
 Ovis Musimon ..... Moufflon.  
 Boselaphus Tragocamelus ..... Nilgai.  
 Connochetes Gnu ..... White-tailed Gnu.  
 Bos bonassus ..... Bison-European.

## ORDER RODENTIA.

## FAMILY CASTORIDÆ.

Castor Canadensis ..... Beaver.

## FAMILY OCTODONTIDÆ.

Myopotamus Coypu ..... Coypu Rat.

## FAMILY HYSTRICIDÆ.

Atherura Africana ..... Brush Tailed Porcupine.  
 Hystrix Cristata Senegalica ..... Kenya Crested Porcupine.

## ORDER MARSUPIALIA.

## FAMILY MACROPODIDÆ.

Macropus Ruficollis ..... Wallaby.

## CLASS AVES.

## ORDER PASSERES.

Cyabospiza Ciris ..... Nonpareil Bunting.  
 Corvus Corax ..... Raven.

## ORDER SCANSORES.

Rhamphastos Erythrorhynchus ..... Toucan (Red-Billed).

## ORDER PSITTACI.

Psittacus Erithacus ..... African Grey Parrot.  
 Amazona Aestiva ..... Blue-fronted Amazon Parrot.  
 Chrysotis Viridigena ..... Amazon Parrots (Green-cheeked).  
 Ara Macao ..... Red/Blue Macaw.  
 Ara Ararauna ..... Blue-Yellow Macaw.  
 Ara Hahnii ..... Hahn's Macaw.  
 Agapornis Pullaria ..... African Lovebird.  
     Blue-Masked Love Bird.  
 Kakatoe Sulpherea ..... Lesser Sulphur Crested Cockatoo.  
 Kakatoe Galerita ..... Greater Sulphur Crested Cockatoo.  
 Loppochroa Leadbeater ..... Leadbeater Cockatoo.  
 Eolophus Roseicapillus ..... Roseate Cockatoo.  
 Leptolophus Hollandicus ..... Cockatiels.  
 Eupsittula Pertinax Aeruginosa ..... Brown Throated Conures.  
 Pionites Melanocephala ..... Black-Headed Caique.  
 Psittacula Nipalensis ..... Alexandrine Parrakeet.  
 Polytelis Swainsonii ..... Barraband Parrakeet.  
 Barnadius Barnardi ..... Barnard's Parrakeete.  
 Psittacula Passerina ..... Blue-Winged Parrakeet.  
 Aprosmictus Erythropterus ..... Crimson-Winged Parrakeet.  
 Platycercus Eximius ..... Golden Mantle Rosella Parrakeet.  
 Brotogerys Chrysopterus ..... Golden-winged Parrakeet.  
 Alisterus Scapularis ..... King Parrakeet.  
 Psephoteus Hæmatonotus ..... Red Rump Parrakeet.  
 Psittacula Torquata ..... Lutinos Ringnecked Parrakeet.  
 Platycercus Palliceus ..... Mealy Rosella Parrakeet.  
 Platycercus Elegans ..... Pennant's Parrakeet.  
 Northipsitta Alexandrae ..... Princess of Wales Parrakeet.  
 Polytelis Anthoepus ..... Rock Pepplar Parrakeet.  
 Platycercus Icterotis ..... Stanley Parrakeet.  
 Palæornis Torquata ..... Green Ringnecked Parrakeet.

## ORDER ANSERES.

Aex Sponsa .....	Carolina Duck.
Somateria Mollissima .....	Eider Duck.
Aex Galerikulata .....	Mandarin Duck.
Cairina Moschata .....	Muscovy Duck.
Tadorna Cornuta .....	Shell Drake.
Anas Boscas .....	Mallard.
Cygnus Olor .....	Mute Swan.
Anser Canadensis .....	Canadian Geese.
Anser Cygnoides .....	Chinese Geese.
Chenalopex Aegyptiaca .....	Egyptian Geese.

## ORDER COLUMBÆ.

Domestic .....	Archangel Pigeons.
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## ORDER GALLINÆ.

Chrysolophus Amherstioe .....	Amherst Pheasant.
Gennæus Edwardsi .....	Edwards Pheasant.
Chrysolophus Pictus .....	Golden Pheasant.
Crossoptilon Auritum .....	Pallas' Eared Pheasant.
Syrmaticus Reevesi .....	Reeves Pheasant.
Phasianus Colchicus Torquatus .....	Ringnecked Pheasant.
Gennæus Nycthemerus .....	Silver Pheasant.
Pavo Cristatus .....	Peacock.
Pavo Muticus .....	Burmese Peacock.
Numida Melleagris .....	Guinea Fowl.

## ORDER ALECTORIDES.

Balearica Chrysopelargus .....	Crowned Cranes.
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## ORDER IMPENNES.

Spheniscus Demersus .....	Black Footed Penguin.
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## ORDER STRIGES.

Carine Noctua .....	Little Owl.
Syrnium Aluco .....	Tawny Owl.
Tyto Alba Affinis .....	African Barn Owl.
Strix Flammea .....	British Barn Owl.
Bubo Virginianus .....	Great Horned Owl.

## ORDER ACCIPITRES.

Falconidæ Tinnunculus .....	Kestrel.
Buteo Vulgaris .....	Buzzard.
Gyps Fulvus .....	Griffon Vulture.
Rhinogryphus Aura .....	Turkey Vulture.
Trigonoceps Occipitalis .....	White-Headed Vulture.
Aquila Chrysæetus .....	Golden Eagle.

## ORDER STEGANOPODES.

Pelecanus Trachyrhynchus ..... North American White Pelican.

## ORDER HERODIONES.

Nycticorax Griseus ..... Night Heron.  
 Leptoptilus Crumeniferus ..... Marabou Stork.  
 Strawnecked Ibis.

## ORDER ODONTOGLOSSI.

Phœnicopterus Roseus ..... Flamingo.

## CLASS REPTILIA.

## FAMILY CROCODILIDÆ.

Alligator Mississippiensis ..... Alligator.  
 Crocodilus Niloticus ..... Nile Crocodile.  
 Osteocœmus Tetraspis ..... Stumpy Crocodile.

## FAMILY TESTUDINIDÆ.

Testudo Denticulata ..... Brazilian Tortoise.  
 Testudo Grœca ..... Grecian Tortoise.  
 Cinosternum Pennsylvanicum ..... Mud Terrapin.  
 Red Headed Terrapin.

## FAMILY VARANIDÆ.

Varanus Niloticus ..... Monitor Lizard.

## FAMILY BOIDÆ.

Euneces Murinus ..... Anaconda.  
 Python Sebœ ..... African Python.  
 Python Regia ..... Royal Python.  
 Python Molurus ..... Indian Python.  
 Constrictor Constrictor ..... Boa Constrictor.  
 C. Constrictor Mexicana ..... Mexican Boa.

## FAMILY VIPERIDÆ.

Bitis Gabonica ..... Gaboon Viper.

## FAMILY COLUBRIDÆ.

Dispholidus Typus ..... Boomslang.

## SUB-FAMILY ELAPIDÆ.

Naja Melanoleuca ..... Black Cobra.  
 Naja Nigricollis ..... Spitting or Blacknecked Cobra.  
 Dendroaspis Viridis ..... Green Mamba.

### CENSUS OF STOCK IN GARDENS.

	1949.		1950.		
	Species	Specimens	Species	Specimens	
MAMMALS	43	149	MAMMALS	54	139
BIRDS	65	153	BIRDS	77	241
REPTILES	16	34	REPTILES	22	33
FISH	44	251	FISH	24	386

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### ADMISSION TO THE GARDENS, REPTILE HOUSE AND AQUARIUM.

The Gardens of the Society are open on every day of the year from 10 a.m. to dusk.

The following table shows the number of visitors to the Gardens, during the last two years.

	1949	1950
VISITORS TO THE GARDENS .....	319,423	414,714
VISITORS TO THE REPTILE HOUSE	102,613	116,199
VISITORS TO THE AQUARIUM .....	50,387	57,750

## PRIVILEGES OF FELLOWS AND MEMBERS.

(1) Patrons have the right to call themselves Fellows of the Society, and add the initials F.N.Z.S. after their names.

(2) Patrons (Fellows) will have personal admission to the Society's Gardens and Collections, and have the privilege of introducing two companions daily, who while in the Fellows company will have the right to enter and use the Society's rooms. Fellows will also receive 20 Tickets annually to give to friends to visit the Gardens.

(3) A Patron shall donate £25 (Twenty-five Pounds) in one sum to the Society's Funds and will not be liable for any further subscription.

(4) Members will have personal admission to the Society's Gardens and Collections, and will receive 20 Tickets annually to give to friends to visit the Gardens. The holders of these tickets if and when accompanied by Members will be eligible for introduction by such Member to the Society's rooms.

(5) A Life Member shall pay one sum of £15 (Fifteen Pounds).

(6) Members shall pay an Entrance Fee of One Guinea and an Annual Subscription of One Guinea.

(7) Members can nominate Associates of the Society as follows:—

Wife or Husband at an Annual Subscription of 10/6.

Children 14—21 at an Annual Subscription of 10/6.

Children under 14 at an Annual Subscription of 7/6.

(8) Fellows and Members will have personal admission to the Library, and the Society's private Tea Room and Lounge.

(9) Only Fellows and Members and their companions will be allowed to use the Private Tea Room and Lounge.

## PATRONS.

Kindly report errors in Names, Titles, or Addresses in  
the Members' Lists to the

Director-Secretary,  
Zoological Gardens,  
CHESTER.

(Telephone Chester 21898).

Allen Russell, Miss G. M. Davenham Hall, Northwich.  
Allen Russell, Miss D. E. Davenham Hall, Northwich.  
Daresbury, Lady ..... Walton Old Hall, Stockton Heath.  
Hewitt, Miss A. C. .... 25, Whalley Rd., Whalley Range, Manchester, 16.  
Mottershead, G. S. .... Zoological Gardens, Upton-by-Chester.  
Smith, W. Proctor ..... Bexton House, Knutsford, Cheshire.

## LIFE MEMBERS.

Bird, Miss J. H. .... 9, Varo Terrace, Stockton-on-Tees.  
Holt, Mrs. J. C. .... "The Cottage", Vyner Road, South Bidston.  
Holt, J. C. .... "The Cottage", Vyner Road, South Bidston.  
Mosford, F. .... The Elms, Churton Heath, Saughton, Nr. Chester.  
Owen, C. J. F. .... "Kirksmead", Church Lane, Upton, Chester.  
Rawlings, H. J. .... "Sunningdale", Sunningdale Drive, Blundellsands,  
Nr. Liverpool.  
Smith, Mrs. A. M. .... Bexton House, Knutsford, Cheshire.  
Storey, J. H. .... Mostyn, Flintshire.  
Watkins, Miss E. .... 72, Panton Road, Hoole, Chester.

## MEMBERS.

Adams, H. D. .... "Lyngen", Pinewood Road, Branksome Park,  
Bournemouth, W.  
Alderson, Mrs. E. A. .... "Windcroft", Bridge Drive, Christleton, Chester.  
Afford, N. T. .... "Stapeley Manor", Stapeley, Nr. Nantwich, Ches.  
Albrecht, J. H. C. .... Westmead, Thornton Hough, Wirral.  
Berry, J. C. .... Beech House, Knowsley Road, Southport.  
Braddon, Mrs. M. .... Leftwich House, Northwich, Cheshire.  
Birch, Mrs. L. .... "Redwall", Sandiway, Cheshire.  
Bushell, H. F. .... "Colonsay", Talbot Road, Birkenhead.  
Barber, Dr. A. R. .... 24, Salesbury Street, Warrington, Lancs.  
Bland, W. P. .... 3, Station Approach, Meols, Hoylake.  
Bennett, P. H. .... Bruche Heath, 36, Green Lane, Padgate,  
Nr. Warrington.  
Bevan, A. E. .... 72, Seal Street, Liverpool.  
Birchall, H. .... "The Arbury", Winwick, Warrington.  
Bulley, Miss A. L. .... "Birch Hey", Ness Holt, Neston, Wirral.  
Bland, A. .... 3, Station Approach, Meols, Hoylake.  
Boden, E. .... "Sunny Bank", Rossett, Nr. Wrexham, Denbs.  
Beed, Mrs. E. .... "Hillside", 84, Prenton Road, East, Birkenhead.  
Barber, D. A. .... "Leafield", The Ridgeway, Heswall, Wirral.  
Brooman, A. S. .... 11, Grange Crescent, Hooton, Wirral.

- Clark, Miss I. .... "Hockcliffe", Waterden Road, Guildford.  
Cohan, C. M. .... 26, Chapel Street, Liverpool.  
Coleman, G. .... 7, Abbots Grange, Liverpool Road, Chester.  
Cooper, E. .... "Mount Alyn", Rossett, Nr. Wrexham, Denbs.  
Charters, D. L. .... 66, Shrewsbury Road, Oxtou, Birkenhead.  
Crosland, Mrs. D. M. .... 11, Knowsley Road, Hoole, Chester.  
Catley, E. C. .... The Pharmacy, Weaverham, Northwich, Cheshire.  
Clarke, Mrs. E. M. .... "Benar", Church Lane, Upton Heath, Chester.  
Carmichael, R. .... 137, Waldgrave Road, Liverpool, 15.  
Canney, Mrs. E. M. .... 8, Kilmorey Park Avenue, Hoole, Chester.  
Clayton, A. .... 57, Greenfield Road, St. Helens, Lancs.  
Cooper, Mrs. A. C. M. .... "Redcliff", Queen's Park, Chester.  
Carr, J. E. B. .... The Paddocks, Norley, via Warrington.  
Carr, Mrs. B. .... The Paddocks, Norley, via Warrington.  
Craven, Mrs. E. .... 3, Ash Grove, Chester.  
Clark, Mrs. E. F. C. .... "Maidsmere", Bromsgrove, Worcs.  
Clark, G. T. .... "Maidsmere", Bromsgrove, Worcs.  
Dutton, R. M. .... "Tirionfa", Pine Walks, Prenton, Birkenhead.  
Deemin, Mrs. E. S. .... "Ardlui", Ruthin, Denbs.  
David, W. G. .... Glynne Cottage, Hawarden, Chester.  
Evans-Wynn, L. .... "Hillside", Vyner Road North, Bidston,  
Birkenhead.  
Edis, H. H. .... 715, Royal Liver Building, Liverpool.  
Eills, W. G. .... "Beechfield", Helsby, Wirral.  
Eaton, G. B. .... 99, Eaton Place, London, S.W.1.  
Egerton, Lady D. G. .... Oulton Park, Tarporley, Cheshire.  
Evans, H. E. .... 5, The Grange, Hartford, Cheshire.  
Earl, Mrs. I. W. .... 14, Chester Road, Whitby, Ellesmere Port.  
Ellis, Mrs. E. L. .... "Petersfield", 111, Saxon Street, Wrexham, Denbs.  
Eckford, Mrs. M. A. .... 38, Oakfield Drive, Upton-by-Chester.  
Forbes, W. Y. .... 164, Chester Road, Huntington, Chester.  
Fletcher, A. W.E., F.Z.S. .... 16, Salisbury Road, Cressington Park, Liverpool.  
Fennell, C. W. .... "Waverley", Chester Road, Sandiway,  
Nr. Northwich.  
Fry, J. Justus, Dr., M.B.,  
Ch. B. .... "Sunny Bank", Sandy Lane, Newcastle, Staffs.  
Faulds, Mrs. C. M. .... "Caistro", Church Lane, Upton-by-Chester.  
Fleetwood, J. D. L. .... 71, Seaview Road, Wallasey, Cheshire.  
Grounsell, G. B. .... Rose Mount, Halkyn, N. Wales.  
Grosvenor, Lady Mary .... Churton Lodge, Churton, Cheshire.  
Greenwood, C. .... "Glenroyd", Church Lane, Upton-by-Chester.  
Griffith, Miss P. M. .... "Coniston", Newton, Chester.  
Gimson, Dr. Olive .... "Kynngstone", Park Road, Hale, Cheshire.  
Grayton, Miss M. .... The Royal Liverpool Children's Hospital,  
Thingwall Hall, Barnston, Nr. Birkenhead.  
Griffith, J. S. .... "Spoth", Column Road, West Kirby, Cheshire.  
Goodall, A. W. .... 33, Stuart Avenue, Hunts Cross, Liverpool.  
Gould, H. C. F. .... 9, Phillimore Terrace, Allen Street, Kensington,  
W.8.  
Green, J. A. .... 6, Cranford Road, Flixton, Manchester.  
Holden, A. F. .... Dane View, Holmes Chapel, Cheshire.  
Hill, A. P. .... "Ballabeg", Winton Road, Bowdon, Cheshire.  
Hill, C. F. .... Daresbury Hall, Warrington, Lancs.  
Hicks, J. L. .... "Cavendish House", 9, Devonshire Road,  
Liverpool, 8.  
Holt, Mrs. L. E. .... "Halstead", Croft Drive West, Caldy, Wirral.  
Houghton, J. S. .... "Brookfield", 239, Padgate Lane, Nr. Warrington.  
Hughes, Miss J. .... Church House, Chelford, Cheshire.

- Hilditch, A. O. .... "Holmfield", 266, Padgate Lane, Padgate,  
Warrington.
- Holt, C. R. .... Royal Liver Building, Liverpool.
- Hutchinson, W. B. .... Lea-by-Backford, Nr. Chester.
- Hughes, G. E. .... 102, Brook Lane, Chester.
- Huxley, H. P. .... 11, Egerton Drive, Upton, Chester.
- Heslop, Mrs. E. E. .... "Fairfield", 10, Whitby Road, Ellesmere Port.
- Houghton, G. .... "Woodside", Hill Cliffe, Nr. Warrington.
- Hamer, A. H. .... 49, Friars Avenue, London, N20.
- Hague, Mrs. G. .... "Rurki", Upton Lane, Upton, Nr. Chester.
- Jones, E. P. .... Green Bank, Chester.
- Johnson, H. T. .... 5, Dysart Buildings, Nantwich, Cheshire.
- Johnston, Miss I. .... Bryn-Mel, Glyn Garth, Anglesey.
- Jackson, W. .... Leighton Court, Neston, Wirral.
- Jones, Mrs. N. H. M. .... Borrashhead, Wrexham, Denbs.
- Johnson, H. C. .... "Westwood", Buxton Road, Disley.
- Johnson, A. C. .... "Eight Oaks", Knutsford, Cheshire.
- Jackson-Maxwell, Miss M. .... Percy House, Scotton, Nr. Knaresborough, Yorks.
- Jacob, G. R. .... Manor House, Queen's Park, Chester.
- Johnson, Miss L. .... 16, Harrod Drive, Birkdale, Southport.
- Kingston, W. R. .... "Springfields", Betchton, Sandbach, Cheshire.
- Kilpatrick, Dr. J. A., M.B.  
Ch.B., F.R.C.S.E. .... 7, Eversleigh Park, Chester.
- Kenyon, Mrs. I. E. .... 93, Liverpool Road, Chester.
- Lee, T. R. .... "Southfield", Moor Lane, Wilmslow, Cheshire.
- Layfield, A. .... "Broom Bank", Tower Road, Prenton, Cheshire.
- Liverpool School of  
Tropical Medicine .... Liverpool University, Liverpool.
- Lusk, Sister W. D. .... Alder Hey Hospital, West Derby, Liverpool, 12.
- Lister, Miss N. .... The Bield, Craig Walk, Bowness-on-Windermere.
- Levy, Miss S. .... "Portel", Upton Lane, Chester.
- Lomax, Mrs. E. M. .... 62, Flag Lane, Upton-by-Chester.
- Leedham, G., O.B.E., C.C. .... Gorst Hill Cottage, Little Sutton, Wirral, Ches.
- Massey, T. .... The Mill, Holmes Chapel, Cheshire.
- Moseley, Miss L. .... Pandyfryn, Penmon, Beaumaris, Anglesey.
- Mounsey, W. E. .... 62, Stanley Road, Hoylake, Cheshire.
- Mortimer, Mrs. M. I. M. .... Crofton Lodge, Kingsley, Cheshire.
- Mottershead, L. .... 13, James Street, Sale, Nr. Manchester.
- McCay, Mrs. E. .... Whaddon Lodge, Lache Lane, Chester.
- Moulden, G. .... 14, King's Lane, Bebbington, Cheshire.
- Milling, Miss E. M. S. .... "Moorlands", Weaverham Road, Sandiway,  
Cheshire.
- Manning, R. .... The White House, Crowton, Northwich.
- Moulden, Dr. G. A. .... 14, King's Lane, Bebbington, Cheshire.
- Neill, C. D. .... "Angova", 6, Reservoir Road, Prenton, Cheshire.
- Narramore, E. G., L.D.S.  
Eng. .... "Dartmeet", Kingsdown, Box, Wilts.
- Neill, R. .... 51, Balls Road, Oxtou, Birkenhead.
- O'Friel, Mrs. P. M. .... Oakfield, Whitby Road, Ellesmere Port, Cheshire.
- Pollock, Mrs. G. M. G. .... The Anchorage, Hoylake, Cheshire.
- Parker, G. W. .... The Garden Cottage, Kelsey Road, Caistor, Lincs.
- Parker, H. F. .... 79, Green Lane North, Liverpool, 16.
- Partington, Mrs. E. T. .... "Oaklea", Albert Drive, Deganwy, N. Wales.
- Payne, H. J. .... 26, Rock Lane West, Rock Ferry, Birkenhead.
- Posnett, Mrs. E. E. .... Tiresford Farm, Tarporley, Cheshire.
- Price, Mrs. P. .... 32, Alwyn Gardens, Upton Heath, Chester.
- Renshaw, Dr. Graham .... "St. Michael's", 165, Hale Road, Hale,  
Altrincham, Cheshire.

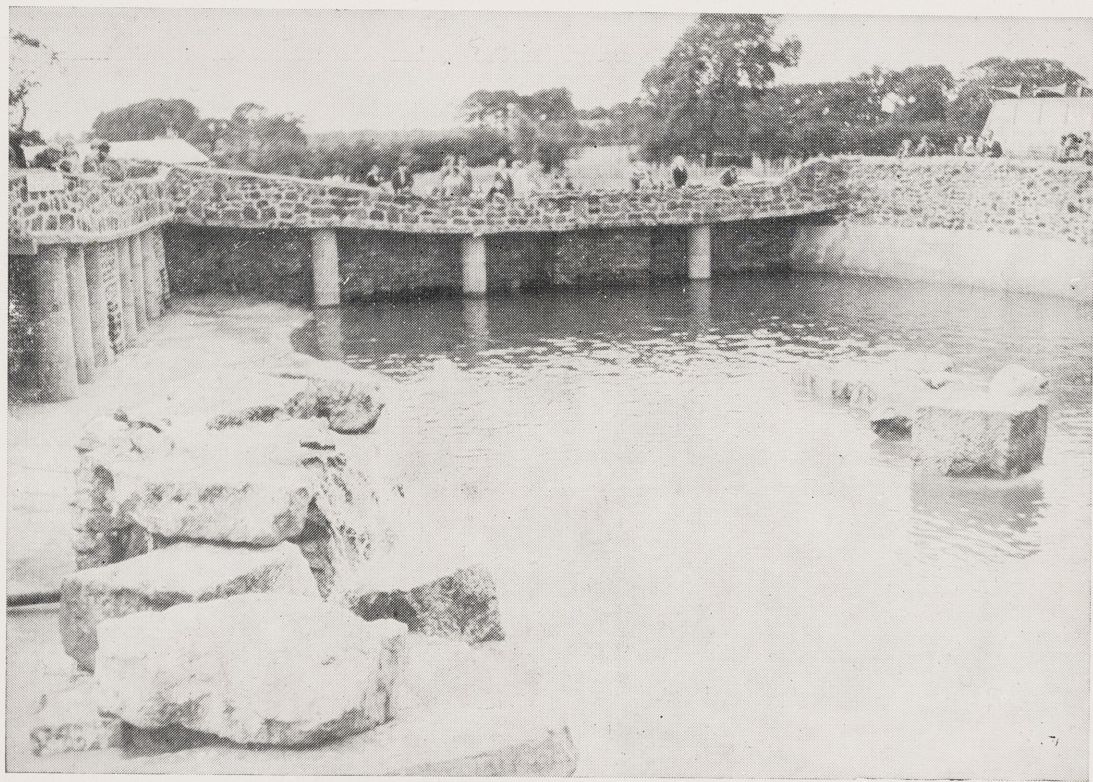
- Roy, Dr. J. A. C. .... Cheadle Royal, Cheadle, Cheshire.
- Rylands, G. K. .... "Uplands", Moore, Nr. Warrington.
- Roberts-Barry, E. .... "Briers", Albert Drive, Deganwy, Caerns.
- Rutherford, Miss E. L. .... The Hatton, Pipers Lane, Heswall, Cheshire.
- Rutherford, R. P. .... "Craigiebarns", Pipers Lane, Heswall, Cheshire.
- Rowlands, J. S. .... Plas Gwyn, Rhyl.
- Reynolds, D. P. .... Flat 507, Portland Court, Wellington Road,  
Wallasey.
- Swain, G. W. .... "Runswick", 8, Totland Grove, Newton Park,  
Chester.
- Snell, B. B. .... "Woodsome", Plymyard Avenue, Bromborough.
- Samuels, L.P., M.A. .... 100, Lacey Green, Wilmslow, Nr. Manchester.
- Summers, G. .... "Craig-y-Castell", Dyserth, Flints.
- Savory, B. W. .... Park Road Studios, Bristol, 1.
- Sykes, B. H. C. .... The Bungalow, Vicar's Cross, Chester.
- Sancto, J. W. .... 1196, New Chester Road, Eastham, Cheshire.
- Sancto, Mrs. J. W. .... 1196, New Chester Road, Eastham, Cheshire.
- Smith, H. A. .... "Sandon", 34, Hoole Road, Chester.
- Summers, Mrs. E. V. .... Denna Hall, Burton Point, Wirral.
- Scott, R. W. G. .... "Southbank", Hillside Road, Haswall.
- Shennan, Mrs. J. .... 18, Endsleigh Gardens, Upton-by-Chester.
- Sutton, K. H. M. .... "Sandycroft", Graham Road, West Kirby, Ches.
- Smith Gordon, Mrs. I. .... "Estyn", Boughton, Chester.
- Smith Gordon, S. .... "Estyn", Boughton, Chester.
- Salter, Mrs. J. M. .... "Roftlee", Marford, Nr. Wrexham.
- Tarras, Dr. G. H. .... "Woodfield", 81, Chester Road, Ellesmere Port,  
Cheshire.
- Thomas, Dr. J. P. .... 23, Waterloo Road, Birkdale, Southport, Lancs.
- Thompson, Mrs. D. M. .... Edgeley House, Whitchurch, Shropshire.
- Thompson, Rev. R. C. .... Edgeley House, Whitchurch, Shropshire.
- Thompson, Mrs. J. O. .... Beacon Tor, Village Road, West Kirby, Ches.
- Travers, S. .... "Sivya", 23, Bache Drive, Upton-by-Chester.
- Veitch, Mrs. P. H. .... 79, Watergate Street, Chester.
- Varian, Miss G. E. .... 34, Holland Park, London, W.11.
- Westminster, His Grace  
the Duke of .... Eaton Hall, Chester.
- Williams, E. .... Boughton Grange, Chester.
- Worth, A. T. .... 26, Kingsmead Upton-by-Chester.
- Williams-Alan, A.C.,  
Lt. Col. .... 2, Ash Grove, Chester.
- Williams, Miss D. .... Boughton Grange Chester.
- Wilkinson, Dr. J. F. .... "Falcondene", 12, Flowery Field, Woodsmoor,  
Stockport.
- Waters, A. A. W. .... 4, Ash Grove, Chester.
- Warburton, T. G. .... 96, Homestead Crescent, Didsbury,  
Manchester, 19.
- Walker, J. L. .... Cottage Guest House, Thelwall, Warrington,  
Lancs.
- Williams, Mrs. M. E. .... Awel Mor, Greenfield, Holywell, Flints.
- Williams, I. I. .... Awel Mor, Greenfield, Holywell, Flints.
- Walton, C. F. .... 22, Station Road, Queensferry, Nr. Chester.
- Williams, I. .... Bryn Poeth, Bordorgan, Anglesey.

## ASSOCIATE MEMBERS.

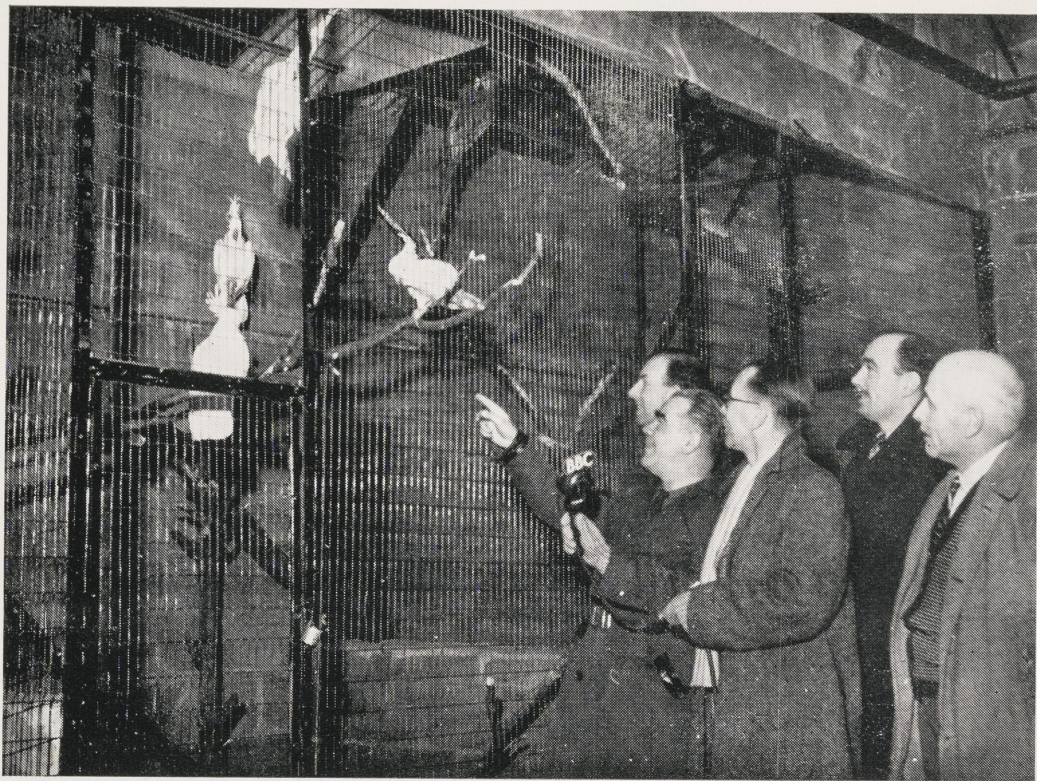
Eckford, J. ....	38, Oakfield Drive, Upton-by-Chester.
Eckford, M. ....	38, Oakfield Drive, Upton-by-Chester.
Price, Miss D. ....	32, Alwyn Gardens, Upton Heath, Chester.
Travers, B. A. W. ....	"Sivya", 23, Bache Drive, Upton-by Chester.
Walton, Mrs. N. ....	22, Station Road, Queensferry, Nr. Chester.
Williams, Miss B. ....	Awel Mor, Greenfield, Holywell, Flints.

## HONORARY FELLOWS.

Amilivia, Senor Don Pedro.  
 Bedford, His Grace the Duke of  
 Darwall, W.  
 Ellison, N. F.  
 Hyde, R.  
 Kingdon, Sir Donald, K.C., K.B.  
 Woods, F. J.



A general view of the new Polar Bear Enclosure.



Eric Jolly of the B.B.C., with a group of broadcasters, in the Parrot House during a nocturnal broadcast recording, made at the Zoo on 6th March, 1950.

FORM OF BEQUEST  
TO THE  
NORTH OF ENGLAND ZOOLOGICAL SOCIETY.

---

I bequeath to the Council of The North of England Zoological Society, for the time being, for the use of the Society, the sum of £..... out of my personal estate, free of all duties and expenses; and I declare that the receipt of the Director-Secretary of the Society for the time being shall be a full discharge to my executor for the said legacy.

JOHNSON & SON,  
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NANTWICH.

