

CONTENTS

	PAGE
PREFACE	ix
ACKNOWLEDGEMENTS	xi

INTRODUCTION

CHAIRMAN: Professor E. G. Hallsworth
*(Department of Agricultural Sciences,
 University of Nottingham)*

Dr. P. E. MACEY (*Antibiotics and Fermentation Division, Boots Pure Drug Co., Ltd., Nottingham*)

THE PRESENT STATUS OF ANTIBIOTICS	1
---	---

PRESENT STATUS IN VETERINARY MEDICINE

CHAIRMAN: Dr. J. C. Buxton
*(M.A.F.F. Veterinary Investigation Laboratory,
 Sutton Bonington)*

Professor R. LOVELL (*Royal Veterinary College, University of London*)

ANTIBIOTICS IN SYSTEMIC INFECTIONS	21
--	----

Dr. S. J. EDWARDS (*A.R.C. Field Station, Compton, Berks.*)

ANTIBIOTICS IN THE TREATMENT OF MASTITIS	43
--	----

Dr. G. WOOLFE (*Biology Division, Research Department, Boots Pure Drug Co., Ltd., Nottingham*)

ANTIBIOTICS AS ANTIPROTOZOAL AGENTS IN VETERINARY MEDICINE	58
--	----

POTENTIAL USES IN CROP PRODUCTION

CHAIRMAN: Dr. P. W. Brian, F.R.S.
(I.C.I. Ltd., Pharmaceuticals Division, Welwyn)

Dr. J. E. CROSSE (*East Malling Research Station, Nr. Maidstone*)

ANTIBIOTIC SPRAYS FOR THE CONTROL OF CHERRY BACTERIOSIS: THE BACTERICIDAL ACTIVITY OF STREPTOMYCIN AND BORDEAUX MIXTURE ON THE PLANT SURFACES	86
---	----

Dr. A. RHODES (*Glaxo Research Ltd., Stoke Poges, Bucks.*)

STATUS OF GRISEOFULVIN IN CROP PROTECTION	101
---	-----

Dr. D. M. SPENCER (<i>A.R.C. Plant Growth Substance and Systemic Fungicide Unit, Wye, Kent</i>)	
ANTIBIOTICS IN SEEDS AND SEEDLING PLANTS	125
A. A. HOLLAND (<i>Institute of Agriculture, University of Western Australia</i>)	
THE EFFECTS OF INDIGENOUS SAPROPHYTIC FUNGI UPON NODULATION AND ESTABLISHMENT OF SUBTERRANEAN CLOVER	147
Dr. R. N. GOODMAN (<i>Department of Horticulture, University of Missouri</i>)	
SYSTEMIC EFFECTS OF ANTIBIOTICS	165
 USES OF ANTIBIOTICS IN FEEDS	
CHAIRMAN: Dr. J. T. Morgan	
(<i>Messrs. Reeden Ltd., Dalton, Thirsk</i>)	
K. L. ROBINSON (<i>Queen's University, Belfast, and the Ministry of Agriculture for Northern Ireland</i>)	
THE VALUE OF ANTIBIOTICS FOR GROWTH OF PIGS	185
Dr. M. E. COATES (<i>National Institute for Research in Dairying, Shinfield</i>)	
THE VALUE OF ANTIBIOTICS FOR GROWTH OF POULTRY	203
Dr. T. R. PRESTON (<i>Rowett Research Institute, Bucksburn, Aberdeen</i>)	
ANTIBIOTICS FOR THE YOUNG RUMINANT	214
 ANTIBIOTICS IN FOOD	
CHAIRMAN: Dr. M. Ingram	
(<i>Low Temperature Research Station, A.R.C., Cambridge</i>)	
Professor F. E. DEATHERAGE (<i>Ohio State University, U.S.A.</i>)	
ANTIBIOTICS IN THE PRESERVATION OF MEAT	225
Professor J. C. AYRES (<i>Iowa State University, U.S.A.</i>)	
USE OF ANTIBIOTICS IN THE PRESERVATION OF POULTRY	244
H. B. HAWLEY (<i>H. B. Hawley Food Consultants, Sherborne, Dorset</i>)	
THE USES OF ANTIBIOTICS IN CANNING	272
Dr. J. M. SHEWAN (<i>Torry Research Station, D.S.I.R., Aberdeen</i>)	
THE USE OF ANTIBIOTICS IN THE PRESERVATION OF FISH	289
Dr. E. H. KAMPELMACHER (<i>National Institute of Public Health, Utrecht</i>)	
SOME ASPECTS OF THE NON-MEDICAL USES OF ANTIBIOTICS IN VARIOUS COUNTRIES	315

GENERAL DISCUSSION ON ANTIBIOTICS IN LABORATORY EVALUATIONS

CHAIRMAN: Dr. M. Ingram

(Low Temperature Research Station, A.R.C., Cambridge)

Dr. A. SEAMAN and Dr. M. WOODBINE (*Microbiological Unit,
Department of Agricultural Sciences, University of Nottingham*)

ANTIBIOTICS IN BACTERIAL CLASSIFICATION WITH SPECIAL REFERENCE TO CORYNEBACTERIA	333
---	-----

Dr. M. LEV (*National Institute for Research in Dairying, Reading*)

GERM-FREE ANIMALS IN LABORATORY USES	352
--	-----

F. G. CLEGG (*M.A.F.F. Veterinary Investigation Laboratory,
Sutton Bonington*)

THE EFFECTS OF ANTIBIOTICS ON THE BOWEL	361
---	-----

PUBLIC HEALTH ASPECTS

CHAIRMAN: Sir Howard W. Florey, P.R.S.

Dr. H. WILLIAMS SMITH (*Animal Health Trust, Stock, Essex*)

THE EFFECTS OF THE USE OF ANTIBIOTICS ON THE EMERGENCE OF ANTIBIOTIC-RESISTANT DISEASE-PRODUCING ORGANISMS IN ANIMALS	374
---	-----

Dr. H. S. GOLDBERG (*Department of Microbiology, School of
Medicine, University of Missouri, U.S.A.*)

EVALUATION OF SOME POTENTIAL PUBLIC HEALTH HAZARDS FROM NON-MEDICAL USES OF ANTIBIOTICS	389
--	-----

LIST OF MEMBERS

405

NAME INDEX

411

SUBJECT INDEX

431