

## CONTENTS

### SESSION A

*Chairman: Sir Gordon Sutherland, F.R.S.*

	<i>Page</i>
Opening of the conference by Sir Gordon Sutherland, F.R.S.	1
Introductory address by Mr. Denzil Freeth, M.P.	3
Mr. D. W. Robinson: GENERAL PROBLEMS OF THE CONTROL OF NOISE (A-1)	5

### SESSION B

*Chairmans Mr. F. B. Greatrex*

Prof. W. Burns: HEARING AND THE EAR (B-1)	19
Dr. D. M. A. Mercer: BASIC INSTRUMENTATION FOR NOISE MEASUREMENT (B-2)	41
Prof. E. J. Richards: AERODYNAMIC NOISE SOURCES (B-3)	55

### SESSION C

*Chairman: Dr. D. G. Sopwith*

Mr. G. Berry: NOISE OF GEARS AND BALL BEARINGS (C-1)	81
Dr. T. Priede: NOISE OF INTERNAL COMBUSTION ENGINES (C-2)	97
Dr. A. J. King: THE REDUCTION OF NOISE AND VIBRATION OF MACHINES (C-3)	119

	<i>Page</i>
Mr. E. B. Daly: FAN NOISE IN VENTILATING SYSTEMS (C-4)	135
Dr. G. J. Thiessen: REDUCTION OF NOISE AT THE LISTENER'S EAR (C-5)	153

#### SESSION D

*Chairman: Dr. T. W. Parker*

Mr. T. J. Hargest: JET ENGINE NOISE REDUCTION (D-1)	167
Mr. W. C. Copeland: REDUCTION OF NOISE FROM GROUND-RUNNING AERO ENGINES (D-2)	179
Mr. P. H. Parkin: PROPAGATION OF SOUND IN AIR (D-3)	197
Mr. H. J. Purkis: SOUND INSULATION AND ABSORPTION (D-4)	213
Mr. H. R. Humphreys: AN ACOUSTICAL CONSULTANT'S CASEBOOK (D-5)	223
Mr. N. Fleming: NOISE PROBLEMS IN FACTORIES (D-6)	233

#### SESSION E

*Chairman: Dr. A. Fogg*

Mr. D. W. Robinson: SUBJECTIVE SCALES AND METER READINGS (E-1)	243
Dr. A. Glorig, Dr. W. D. Ward and Mr. J. Nixon: DAMAGE-RISK CRITERIA AND NOISE-INDUCED HEARING LOSS (E-2)	263
Dr. T. S. Littler: TECHNIQUES OF INDUSTRIAL AUDIOMETRY (E-3)	285

Dr. A. Carpenter:	<i>Page</i>
EFFECTS OF NOISE ON PERFORMANCE AND PRODUCTIVITY (E-4)	297
Mr. D. Ll. Davies:	
NOISE PROBLEMS - INDUSTRY'S ATTITUDE (E-5)	311

## SESSION F

*Chairman: Sir Alan Wilson, F.R.S.*

Mr. R. S. Forster:	
LEGISLATION REGARDING NOISE (F-1)	325
Prof. F. Ingerslev:	
AIRCRAFT NOISE AND THE COMMUNITY (F-2)	333
Mr. C. H. G. Mills:	
THE MEASUREMENT OF TRAFFIC NOISE (F-3)	345
Mr. W. A. Allen:	
CRITERIA FOR DWELLINGS AND PUBLIC BUILDINGS (F-4)	359
Prof. C. W. Kosten and Mr. G. J. van Os:	
COMMUNITY REACTION CRITERIA FOR EXTERNAL NOISES (F-5)	373
Closing address by Sir Alan Wilson, F.R.S.	389

Exhibits illustrating the principles of noise control	393
Brief description of the units and terminology used in noise measurement	405
Application of the digital computer to calculations of loudness, etc.	407
Attendance list	413