

CONTENTS

FIRST SESSION

DEVELOPMENT AND FURTHER PERSPECTIVES OF THE CONTINUOUS-FLOW METHOD OF CULTIVATION OF MICRO-ORGANISMS	3
A THEORETICAL ANALYSIS OF CONTINUOUS CULTURE SYSTEMS	21
A METHOD FOR THE STUDY OF THE DYNAMICS OF CONTINUOUS FERMENTATION	54
DISCUSSION ON THE THREE PRECEDING PAPERS	64

SECOND SESSION

MANUFACTURE OF BAKERS' YEAST BY CONTINUOUS FERMENTATION. I. PLANT AND PROCESS	81
MANUFACTURE OF BAKERS' YEAST BY CONTINUOUS FERMENTATION. II. INSTRUMENTATION	94
DISCUSSION ON THE TWO PRECEDING PAPERS	116
STUDIES ON A SIMPLE MULTI-STAGE SYSTEM FOR CONTINUOUS CULTURE UNDER PULSATING AERATION	118
DISCUSSION	125
PRODUCTION OF VITAMIN B ₁₂ AND AN ANALOGUE BY CONTINUOUS FERMENTATION	127
DISCUSSION	140

THIRD SESSION

PLANT FOR CONTINUOUS BIOLOGICAL TREATMENT OF CARBON DIOXIDE EFFLUENTS	147
CULTURE OF BACTERIA ASSOCIATED WITH EFFLUENT DISPOSAL	165
APPLICATION OF HOMOGENEOUS CONTINUOUS CULTURE TO THE TREATMENT OF SPENT LIQUOR	175
AERATION IN BIOLOGICAL PURIFICATION PROCESSES	187
DISCUSSION ON THE FOUR PRECEDING PAPERS	207

FOURTH SESSION

PRODUCTION OF BEER BY CONTINUOUS FERMENTATION	219
DISCUSSION	229
AERATION AND AGITATION IN CONTINUOUS CULTURE	233
DISCUSSION	251
INDUSTRIAL APPLICATIONS OF CONTINUOUS CULTURE PROCESSES	254
DISCUSSION	265
GENERAL DISCUSSION	267
DEMONSTRATIONS	271