CONTENTS

- vii FOREWORD
- viii Inaugural speech
 - ix Welcome address

terabailean

- x Photoperiod sensitivity—a neglected issue
 M. Amirul Islam
- xiii Vote of thanks Frank W. Sheppard, Jr
- xv Introduction

PHOTOPERIOD SENSITIVITY AND PLANT BEHAVIOUR

- 1 The Ecology of transplant Aman rice S. M. H. Zaman
- 8 The response of photoperiod sensitive-transplant rice to day length and low temperature

Benito S. Vergara and M. Zahurul Haque

18 Photoperiodism and thermosensitivity of transplant Aman rice in Bangladesh Zahurul Haque

GENETICS AND PLANT BREEDING

- 27 Plant characteristics needed for transplant Aman rice

 Munshi Siddique Ahmad
- 37 Genetics and breeding of photoperiod-sensitive rice varieties

 Gurdev S. Khush
- 45 Rapid generation advance as a breeding method for photoperiod-sensitive rice H. Ikehashi and E. Nieto
- 53 IRRI collaborative programme on rainfed lowland rice W. R. Coffman and J. S. Nanda
- The use of floating rice as parental source in breeding for transplanted areas

 Ben R. Jackson
- 65 Direct seeding rice in Thailand
 Suvit Pushpavesa
- 69 Drought problems in rainfed lowland rice areas and varietal development S. K. De Datta, E. L. Aragon and P. G. Vicencio

PEST MANAGEMENT

- 85 Insect pests and transplant Aman rice Shamsul Alam
- 94 Major diseases of photoperiod-sensitive monsoon rice in India N. K. Chakrabarti

109 Disease of photoperiod-sensitive transplant Aman rice in Bangladesh Siddique Ali Miah

PRODUCTION PRACTICES

The influence of cultural practices on the yield of photoperiod-sensitive transplant rice of Bangladesh

A. J. M. Azizul Islam

142 Weed control in rainfed transplant rice

S. K. De Datta and P. C. Bernasor

150 Problems of photoperiod-sensitive transplant Aman rice
D. K. Mukherji

SOIL FERTILITY AND MANAGEMENT

- 165 Fertilizer response studies with photoperiod-sensitive transplant rice in Bangladesh

 A. C. Roy
- 191 Problem soils of transplanted photoperiod-sensitive rice areas

 F. N. Ponnamperuma
- 205 Fertilizer trials with photoperiod-sensitive and-insensitive transplant rice in Thailand Chayong Nammuang and Jisuke Takahashi

AGRO-ECONOMIC CONSTRAINTS AND PROSPECTS

215 Socioeconomic constraints to production of photoperiod-sensitive transplant rice in Bangladesh

Ekramul Ahsan

226 Socioeconomic constraints to the production of photoperiod-sensitive transplant rice in Eastern India

Randolph Barker

- 243 Photoperiod-sensitive transplant Aman rice-based cropping systems of Bangladesh

 M. Zahidul Hoque
- 258 Rice-based cropping systems in Southeast Asia using photoperiod-sensitive rice varieties

Virgilio R. Carangal

COUNTRY REPORTS

265 The rice situation in Nepal B. B. Shahi

269 Photoperiod-sensitive transplant rice in Thailand Sermsak Awakul

- 276 Photoperiod response of transplanted rice
 Suvit Pushpavesa
 281 Some considerations on the cultivation of photoperiod-sensitive winter (Aman) rice varieties in West Bengal
 S.K. Datta, B. Banerji & J. Som
 296 The wet season rice in Vietnam
 Dao The Tuan
 303 Photoperiod-sensitive transplant rice in Indonesia
 H. Noorsjamsi and S. Subiyanto
- 311 APPENDICES
- 311 Seminar proceedings
- 321 Conclusions and recommendations
- 324 Participation

