

Contents

| | |
|--|-----|
| Opening Address—Ken-ichi HAYASHI | i |
| Welcome Address—Ryoichi KAWASHIMA | iii |
| COUNTRY REPORTS | |
| Brazilian problem soils: distribution, characteristics and utilization —José da SILVA MADEIRA NETO, Jamil MACEDO and Luiz GUIMARÃES de AZEVEDO | 1 |
| On the classification and utilization of Red soils in tropical and subtropical China—ZHAO Qi-Guo | 21 |
| Distribution and characteristics of problem soils in India and their management for crop production—N.N. GOSWAMI | 25 |
| Distribution, characterization and utilization of problem soils in Malaysia—A country report—Mohd. ZAHARI ABU BAKAR, Abd. WAHAB NAFIS, Ting Chaong CHAANG and Abd. RAHIM MOHAMAD | 41 |
| The nature, distribution and management of some problem soils in the Philippines—Aurelio A. BRIONES | 63 |
| Problems of utilization and management of some important great soil groups in Sri Lanka—S. SOMASIRI | 73 |
| Distribution, characteristics and utilization of problem soils in Thailand—S. PANICHAPONG | 83 |
| Present soil conditions of cultivated land in Japan—K. ABE | 97 |
| INTRODUCTORY LECTURES | |
| Capability considerations for tropical soils—Kazutake KYUMA | 105 |
| Problems and potentials of Vertisols and Alfisols—the two important soils of SAT-ICRISAT experience—J.S. KANWAR | 119 |
| Suggestions for the management of “problem soils” for food crops in the humid tropics—H.R. von UEXKULL | 139 |
| Utilization of organic wastes for agriculture—P.R. HESSE | 153 |
| Performance of crops on soils low in pH and phosphorus—Akira TANAKA | 157 |
| Iron toxicity of rice as a multiple nutritional soil stress— J.C.G. OTTOW, G. BENCKISER and I. WATANABE | 167 |
| TECHNICAL REPORTS | |
| Improvement and fertilization of acid sulfate soils in Thailand—PAIBOON Prabuddham | 181 |
| Effects of field drainage on some chemical properties of acid sulfate soils under coconut small holdings in West Johore Agriculture Development Scheme in Malaysia—Mohd. ZAHARI ABU BAKAR, Ting Chaong CHAANG and B. GOPINATHAN | 209 |
| Nitrogen fixation in acid sulfate paddy soils—Iwao WATANABE and Wisit CHOLITKUL | 219 |
| Efficient level of phosphorus fertility in paddy soils— Hitoichi SHIGA | 227 |
| Improvement and management of peat soils in Japan— Masanori MIYAKE | 243 |
| Characteristics and fertilization of Andepts in the Philippines—Aurelio A. BRIONES | 251 |

| | |
|--|-----|
| Some characteristics of Andosols in Japan—Yoji AMANO | 265 |
| Problems and improvement of volcanic ash soils in Japan with reference to the weathering sequence—Tatsuzi TAKAHASHI | 275 |
| Micronutrient problems in upland soil in Indonesia— M. ISMUNADJI, A. HIDAYAT and R. FATHAN | 289 |
| Cropping systems to preserve fertility of Red-Yellow Podzolic soils in Indonesia—J.L. MCINTOSH, Inu Gandana ISMAIL, Surjatna EFFENDI and M. SUDJADI | 297 |
| Improvement and fertilization of the savannas in Brazil— Edson LOBATO, Wenceslau J. GOEDERT and Morethson RESENDE | 309 |
| Phosphorus nutrition affecting upland rice yield in some Brazilian Latosols—Yoshikazu OHNO and Lauro A. OKUYAMA | 321 |
| Present methods of fertilization for the Red soils in South China—Ching-kwei LI | 333 |
| Improvement and fertilization of upland soils in Thailand— SAMRIT Chaiwanakupt and C. TONGYAI | 341 |
| Improvement of the moisture regime of upland soils in Thailand by soil management—Toru KUBOTA, Prateep VERAPATTANANIRUND, Pongpit PIYAPONGSE and Samnao PHETCHAWEE | 351 |
| Soil and water management and soil physical properties with special reference to erosion hazard by water—Shoichi TOKUDOME | 373 |
| Soil management in the subtropical region—Hideo ICHIKI, Akira ISHIHARA and Tadashi HAKOISHI | 387 |
| General Discussion | 397 |
| Concluding Remarks—Yoshiharu TOKUNAGA | 407 |
| List of Participants | 409 |