

TABLE OF CONTENTS

Preface

Welcoming Address, Ahmad Said

Address by Michel T. Halbouty

Opening Address, Deputy Minister of Primary Industries Malaysia

SECTION 1: KEYNOTE PAPERS

- 1-3 **Plate tectonics and petroleum basins**
DAVID G. HOWELL
- 5-19 **World petroleum resources — where, why, and how much?**
CHARLES D. MASTERS

SECTION 2: GEOLOGY AND TECTONICS OF EAST AND SOUTHEAST ASIA

- 21-32 **Sedimentology of the Semirara Formation in Semirara Island: implications for the Miocene sedimentation and tectonics of south Philippines**
C.S. BRISTOW AND P.R. BIRD
- 33-41 **Tectonic features and evolution of China seas and adjacent regions**
QIU YAN AND LI TANGGEN
- 43-64 **Neogene tectonics and orogenesis of Indonesia**
T.O. SIMANDJUNTAK
- 65-93 **Dinoflagellate cyst biostratigraphy of Tertiary and Quaternary deposits of offshore NW Borneo**
RONALD E. BESEMS
- 95-103 **Tectonic control on the development of the Neogene basins in Sabah, East Malaysia**
FELIX TONGKUL
- 105-118 **Lithosphere structure and dynamics of the Banda Arc collision zone, Eastern Indonesia**
ADRIAN RICHARDSON
- 119-127 **The nonlinear inversion of paleogeothermal evolution: an example from the northern part of South China Sea**
XUE ALIMIN
- 129-142 **Sequence stratigraphy of the Middle Miocene-Pliocene southern offshore Sandakan Basin, East Sabah**
ROBERT H.F. WONG
- 143-152 **Tertiary stratigraphy and tectonic evolution of southern Sumatra**
KUSNAMA, S. ANDI MANGGA AND D. SUKARNA
- 153-162 **Gravity modelling of extensional basins in Southeast Asia**
STEVEN H. HARDER, STEVEN J. MAURI AND SUSAN MARSHALL-ARRAZOLA
- 163-180 **Geology of the Bayah area: implications for the Cenozoic evolution of the West Java, Indonesia**
D. SUKARNA, S.A. MANGGA AND K. BRATA
- 181-194 **Sedimentological and mineralogical analysis of the Neogene turbidite sandstone beds at the eastern margin of the Niigata backarc oil basin, central Japan**
SHUICHI TOKUHASHI
- 195-210 **Tertiary tectonic evolution of the NW Sabah Continental Margin**
HANS P. HAZEBROEK AND DENIS N.K. TAN

- 211-222 **Cenozoic magmatism in Indochina: lithosphere extension and mantle potential temperature**
MARTIN F.J. FLOWER, NGUYEN HOANG, NGUYEN TRONG YEM, NGUYEN XUAN BAO, ROBERT J. McCABE AND STEVEN H. HARDER
- 223-240 **The geophysical characteristics and evolution of northern and southern margins of the South China Sea**
XIA KANG-YUAN AND ZHOU DI

SECTION 3: PETROLEUM-BEARING BASINS AND POTENTIAL OF SOUTHEAST ASIA

- 241-262 **Oil, geology and changing concepts in the southwest Philippines (Palawan and the Sulu Sea)**
E.F. DURKEE
- 263-288 **Tarakan Basin, NE Kalimantan, Indonesia: a century of exploration and future hydrocarbon potential**
A.W.R. WIGHT, L.H. HARE AND J.R. REYNOLDS
- 289-301 **A preliminary result of the Ragay Gulf survey in the Philippines**
CHAO-SHING LEE, NELSON D. TRINIDAD AND MALCOLM C. GALLOWAY
- 303-311 **Giant oil accumulations and their areal concentration efficiency**
KINJI MAGARA
- 313-330 **New reef targets for oil and gas exploration in Fiji, Southwest Pacific**
J.A. RODD

SECTION 4: AUSTRALIA, NEW ZEALAND AND THE PACIFIC

- 331-341 **Tectonism, magmatism and sedimentary basin development, Paleozoic to Paleogene, New Caledonia**
PHILIPPA M. BLACK
- 343-356 **Hydrocarbon occurrences in the Cooper and Eromanga basins in central Australia**
J. PARAN
- 357-368 **A new investigation of some Australian continental scale gravity lineaments**
CATHERINE I. ELLIOT

SECTION 5: GEOTHERMAL ENERGY

- 369-385 **Geology, energy potential and development of Indonesia's geothermal prospects**
MOCHAMAD BOEDIHARDI, AGUS MULYONO, ALIMIN GINTING, MARK D. MOSBY AND VINCENT T. RADJA
- 387-397 **Deep, slime hole, diamond drilling program proves effective for geothermal assessment in Hawaii**
HARRY J. OLSON AND JOHN E. DEYMONAZ

SECTION 6: COAL

- 399-410 **Coal as an energy resource in Malaysia**
CHEN SHICK PEI
- 411-419 **Coal in the western Pacific basin: an overview**
E.R. LANDIS AND J.N. WEAVER