

EAGE Workshop on Advanced Petroleum Systems Assessments 2024

In Pursuit of Differentiated Barrels

Kuala Lumpur, Malaysia
30-31 July 2024

ISBN: 979-8-3313-0734-9

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2024) by the European Association of Geoscientists & Engineers (EAGE)
All rights reserved.

Printed with permission by Curran Associates, Inc. (2024)

For permission requests, please contact by the European Association of Geoscientists & Engineers (EAGE)
at the address below.

European Association of Geoscientists & Engineers (EAGE)
PO Box 59
3990 DB Houten
The Netherlands

Phone: +31 88 995 5055
Fax: +31 30 634 3524

eage@eage.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Habitat and Potential Source of Hg in Mobile Hydrocarbons, Browse Basin, NW Australia <i>J. Burgess, L.T. Bryndzia, J. Bourdet</i>	1
Consistent Hydrocarbon Phase and Column Height Prediction - Bridging the Gap Between PDA and Prospect Assessment..... <i>M. Neumaier</i>	5
Integrated Approach to Fluid Fill Determination Maximizing Hydrocarbon Recovery for Late Life Development Field in Brunei. <i>A.F. Bin Haji Abdullah, I.S. Ali Rahman, N. Zaini, G. Siew, S. Buckle</i>	8
Understanding the Anomaly of Hydrocarbon Accumulation in Very Mature Brown Field (B Field Case)..... <i>Z.A. Suwito</i>	11
Unexplored Hydrocarbon Opportunities in Seram Offshore of Eastern Indonesia <i>W.N. Shariffudin, E. Tri Hartadi, A.A. Azman, N.F. Ishak, H. Iriansyah Darmawan, A. Ikramina, R. Krishna Pratama, M.H. Mohamad, S. Sherkati</i>	14
An Integrated and Refined Crustal Heat Flow Modeling Application in Sabah Deepwater Region <i>N.F. Ahmad Sharif, R. Das</i>	19
Prediction of H ₂ S and CO ₂ <i>Z. Abdul Kadir, N.F. Ahmad Sharif, Z.A. Zulkifli</i>	22
Modeling H ₂ S and CO ₂ Uncertainty and Risk Using Basin Modeling: Case Study from Central Luconia..... <i>S. Dubey, J. Carlos Hidalgo, O. Swee Keong</i>	25
De-Risking Early-Miocene Play Using Petroleum System Modeling a Case Study from North Malay Basin..... <i>S. Dubey, S. Nayak Parsuram, A. Tarang Patrick Panting, M. Al-Amin B Abd Mutalib, M.Z. B Kastor, O. Swee Keong</i>	30
Modeling Volcanic Intrusions in a Complex Rift and Their Effect on the Petroleum System..... <i>J. Wendebourg, R. Traby, J. Goode</i>	35
Delineating Petroleum System Elements Distribution of the Syn-Rift Interval in Malay Basin Through Forward Stratigraphic Modeling..... <i>A. Satrio Baskori, M.S.F. Abdul Razak, M.W. Husni, N.F. Hisham, A.L. Abdullah, A.J. Abu. Bakar, H. Maulana</i>	39
Leveraging Integrated G&G Application to Unravel Potential of Deepwater Turbidite Play in Offshore North Sumatra Basin <i>N.S. Azahari</i>	43
Proactive Approach of Reservoir Quality Identification from Inferred Improved Parameters Through Timpan-1 Discovery <i>N. Amalina, D. Hasspariah, N. Bakti, N. Fadhila, W.M. Helmy, N. Syafiqah, A.B. Christine, M. Shahimi, N. Syazwani, K. Ezriq</i>	46

“The Great Turbidite” of North Sumatra Basin- Unraveling Deepwater Turbidities Through
Advanced Interpretation 49
W.M.H. CHE ALAIDIN

Exploring the Fractured Basement Potential in North Sumatera with Analogue from South Sumatra
Basin..... 52
C.B. Babai

Author Index