

INDONESIAN MINING JOURNAL

Volume 17 Number 3, October 2014

ISSN 0854-9931

Accreditation No : 465/AU2/P2MI-LIPI/08/2012

- ❖ Risk Assessment of Open Pit Slope Design at PT Adaro Indonesia
Penilaian Risiko Kestabilan Lereng Tunggal Tambang Terbuka di PT Adaro Indonesia
M.A. Azizi, S. Kramadibrata, R.K. Wattimena and I.D. Sidi113 - 121

- ❖ Mineralization of the Selected Base Metal Deposits in the Barisan Range, Sumatera, Indonesia (Case Study at Lokop, Dairi, Latong, Tanjung Balit, and Tuboh)
Mineralisasi Endapan Logam Dasar Pilihan di Pegunungan Barisan, Sumatera - Indonesia (Studi Kasus di Lokop, Dairi, Latong, Tanjung Balit, dan Tuboh)
Hamdan Z. Abidin and Harry Utomo122 - 133

- ❖ Beneficiation of Sambiroto Silica Sand by Chemical and Biological Leaching
Benefisiasi Pasir Silika Sambiroto dengan Pelindian Secara Kimia dan Biologi
Suratman and Sri Handayani134 - 143

- ❖ Process Mineralogy for Evaluating Mineralogy, Physical and Chemical Characters of the Tailings Comes from Gold Processing
Mineralogi Proses untuk Mengevaluasi Karakter Mineralogi, Fisika dan Kimia Limbah Pengolahan Emas
Tatang Wahyudi144 - 156

- ❖ Carbonization of Banten Coal by Adding Water Steam; Changes on Carbon Functional Groups and Pore Characteristics
Karbonisasi Batubara Banten dengan Penambahan Uap Air; Perubahan Gugus Fungsi Karbon dan Karakteristik Pori
Anggoro T. Mursito, Atet Saepuloh and Eki N. Dida157 - 165

INDONESIAN MINING JOURNAL

Jalan Jenderal Sudirman 623 Bandung 40211, Indonesia
Ph. (022) 6030483 Ext. 285, Fax. (022) 6003373

Indonesian Mining Journal (IMJ) is periodically published in February, June and October. The journal contains paper which relates to research and development projects in mineral and coal, i.e. exploration, exploitation, processing, utilization, environment, economics and policy. The editors only accept papers that are relevant to the substance of this publication.

ADVISOR

Head of R&D Centre for Mineral and Coal Technology

Head of Affiliation and Information Division

Editor - in - Chief

Dr. Binarko Santoso, Ir.

EDITORIAL BOARDS

1. Dr. Binarko Santoso, Ir. (Mineral and Coal Geology)
2. Prof. Dr. Datin Fatia Umar, Ir., MT. (Chemical Engineering/Coal Processing and Utilization)
3. Sri Handayani, Dra., M.Sc. (Mineral Biotechnology)
4. Prof. Husaini, Ir., M.Sc. (Environmental Engineering)
5. Slamet Suprapto, M.Sc. (Coal Technology)
6. Sumaryono, Drs., M.Sc. (Coal Combustion)
7. Prof. Dr. Bukin Daulay, M.Sc. (Coal Technology)

SCIENTIFIC REVIEWERS

1. Dr. Binarko Santoso, Ir.
2. Sri Handayani, Dra., M.Sc.

PEER REVIEWERS

1. Prof. Dr. Syoni Supriyanto, M.Sc. (ITB - Mining Engineering)
2. Dr. Singgih Saptono, M.Sc. (UPN Veteran Yogyakarta - Mining Engineering)
3. Dr. Said Muzambiq, M.Sc. (ITM Medan - Mining Environment)
4. Dr. Phil.Nat. Sri Widodo, M.T. (UNHAS - Mining Design)
5. Dr. Nuzul Achyar (FE-UI - Economics)
6. Dr. Ir. Edi Sanwani (ITB - Mineral-Coal Processing)
7. Prof. Dr. Pramusanto, Ir. (Unisba - Extractive Metallurgy)
8. Prof. Dr. Ir. Udi Hartono (PSG - Petrology and Mineralogy)
9. Prof. Dr. Ir. Surono (PSG - Mine Geology)
10. Dr. Hermes Pangabean, M.Sc. (PSG - Fossil Energy)
11. Dida Kusnida, Ir., M.Sc. (P3GL - Marine Geophysics)
12. Lukman Arifin, Drs., M.Si. (P3GL - Marine Geology)
13. Sri Widayati, Ir., M.T. (Unisba - Mineral Economics)
14. Dr. Ir. Ukar W. Soelistijo, M.Sc. APU. (Unisba - Mineral Economics)
15. Sudaryanto, Ir., M.T. (LIPi - Surface Mine)
16. Dr. D. Hendra Amijaya (UGM - Hydrocarbon Geochemistry and Coal Geology)
17. Dr. Sri Mulyaningsih, S.T., M.T. (IST AKPRIND Yogyakarta - Engineering Geology)
18. Dr. Muchlis, M.Sc. (IST AKPRIND Yogyakarta - Geological Environment)
19. Eko Tri Sumardani Agustinus, Ir., M.T. (LIPi - Underground Mine)

20. Achmad Subardja Djakamihardja, Ir., M.Sc. (LIPi - Rock Geomechanics)
21. Nyoman Sumawijaya, Ir., M.Sc. (LIPi - Mine Geohydrology)
22. Prof. I G. Ngurah Ardha, M.Sc. (Metallurgy/Mineral Processing)
23. Tatang Wahyudi, Ir. M.Sc. (Geology/Process Mineralogy)
24. Jafril, Drs. (Mineral and Coal Resources Management)
25. Dr. Miftahul Huda, Ir., M.Sc. (Applied Chemical Technique/Coal Beneficiation Technology)
26. Prof. Dr. Siti Rochani, M.Sc. (Chemistry/Material Science)
27. Ningin Sudini Ningrum, M.Sc. (Geology/Coal Beneficiation Technology)
28. Zulfahmi, Ir., MT. (Underground Mine)
29. Retno Damayanti, Dra., Dipl.EST. (Chemistry/Mine Environment)
30. Eko Pujianto, Ir., M.E. (Geotechnology)

The Indonesian Mining Jounal would like to thanks the peer reviewers, for the reviewing the manuscripts to published in the Indonesian Mining Journal Vol. 17, No. 3, October 2014. Those are:

1. Zulfahmi, Ir., MT.
2. Prof. I G. Ngurah Ardha, M.Sc.
3. Tatang Wahyudi, Ir., M.Sc.
4. Prof. Dr. Ir. Udi Hartono
5. Prof. Dr. Siti Rochani, M.Sc.
6. Ningin Sudini Ningrum, M.Sc.

BUSINESS AND ADMINISTRATION STAFF

Umar Antana, K. Sri Henny, Rusmanto, Bachtiar Efendi, Arie Aryansyah and Andy Wicaksono

PUBLISHER

R&D Centre for Mineral and Coal Technology

EDITOR ADDRESS

Jl. Jend. Sudirman 623 Bandung 40211
Telpon : (022) 6030483 - 5, Fax : (022) 6003373
e-mail : publikasitekmira@tekmira.esdm.go.id
publikasitekmira@yahoo.com

Disclaimer:

Opinions and statements expressed in IMJ are the author's responsibility

Accredited as a scientific journal based on:

Decree of Head of Indonesian Science Institute
No. 465/AU2/P2MI-LIPi/08/2012