



6th International Conference

SDIMI2013

**SUSTAINABLE DEVELOPMENT
IN THE MINERALS INDUSTRY**



Milos Conferences

30 June - 3 July 2013, Milos Island, Greece

Milos Conference Center - George Eliopoulos

P R O G R A M M E

<http://sdimi2013.conferences.gr>



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Aim

The objective of this Conference is to assist the minerals industries in their global transition to sustainable development.

At present, the focus of public perception is placed on environmental and social consequences of mining. Growing environmental and social concerns, supply chain procurement standards, as well as public pressure and regulatory measures, will profoundly shape the global mineral business in the near future.

In order to cope with these challenges, the minerals community must integrate sustainable development concepts, best-practices and stakeholders participation into the technical considerations, business strategies and performance goals that are associated with all facets of mineral exploitation, from exploration to mine closure.

The main theme of the meeting, therefore, is the development, monitoring and assessment of sustainable development criteria for mineral operations.

The Conference also aims to conclude with a consensus plan and a process, representing a variety of stakeholders, which can provide guidance and direction to the minerals community on the path to sustainable development.



Milos Conferences



Milos Conferences Partner

The conference is a Milos Conferences event.
The Milos Conferences is a function of the “Milos Conference Center - George Eliopoulos”, a non-profit organization, located on the island of Milos, Greece.

The objective of the “Milos Conferences” is to create the conditions for interaction between academia and industry, and between different disciplines and to disseminate scientific and technological developments especially to young scientists.



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ORGANIZATION

The Conference is jointly organized by:

- **Virginia Tech, USA**
- **Technical University of Crete, Greece**
- **Aachen University of Technology (RWTH), Germany**
- **University of British Columbia, Canada**

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- **Karmis Michael, Virginia Tech, USA**

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Conference Secretariat:

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Address: Imerovigli, GR-84700, Santorini, Greece

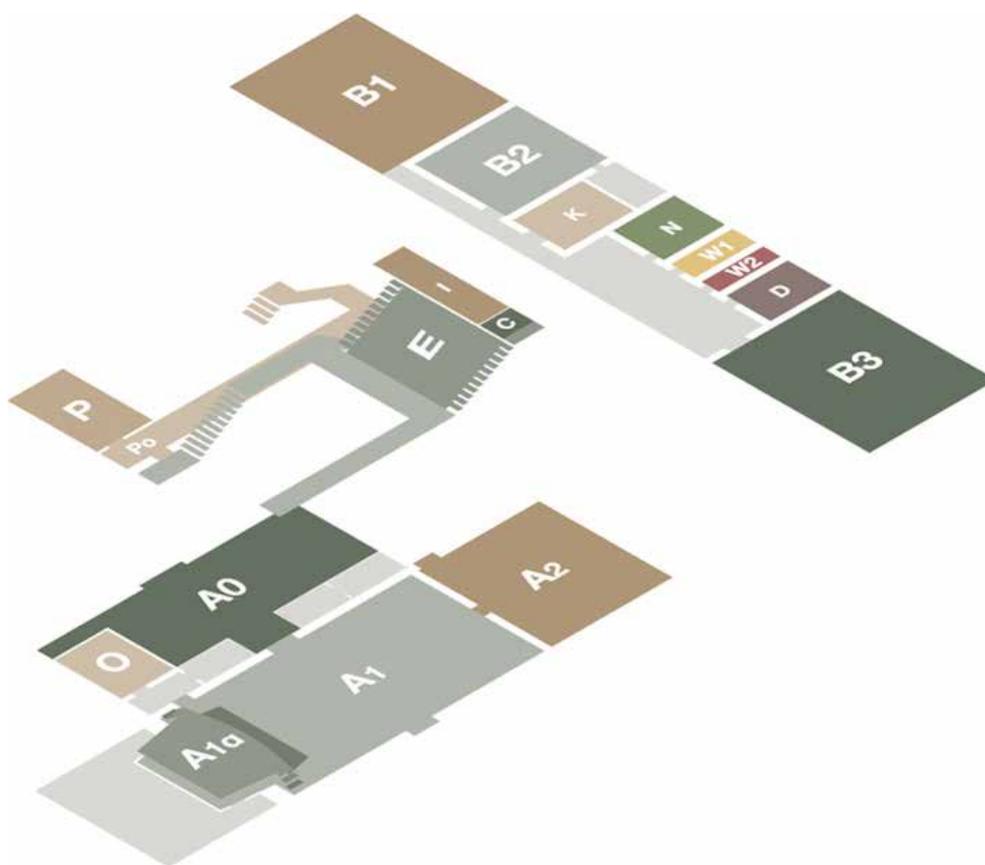
Phone: +30 2286024758

Fax: +30 2286023672

Conference Secretariat E-mail: sdimi2013@heliotopos.net



MILOS CONFERENCE CENTER HALLS LAYOUT



Main Hall – Ground Floor

- A0. Reception Hall
- A1. Main Hall
- A2. Secondary Hall
- A1a. Stage
- O. Offices

Main Hall – Balcony

- E. Balcony
- I. Translation Booths
- C. Central Control Panel
- P. Press Room
- Po. Poster Space

Euripides Mavrommatis Wing

- B1. Multipurpose Hall
- B2. Multipurpose Hall
- K. Catering
- N. Internet Room
- W1. WC
- W2. WC Disabled
- D. Infirmary
- B3. Multipurpose Hall



Programme

SUNDAY 30 JUNE, 2013

- 09:00-18:00:** Boat tour of the island (weather permitting)
18:30-20:30: Registration & Welcome Reception, Room: Lobby Area

MONDAY 1 JULY, 2013

- 08:30-09:00:** Registration, Room: Lobby Area
- 09:00-09:15:** Welcome and Conference Opening, Room: A1
Chair(s): Zach Agioutantis and Michael Karmis
- 09:15-11:00:** Keynote Session, Room: A1
Chair(s): Zach Agioutantis and Michael Karmis
Keynote Lectures by Spiliopoulou, M., Hodge, T., Vidalis, E., Faidros, E.
- 11:00-11:30:** Coffee Break, Room: B1
- 11:30-13:00:** Sustainability in Minerals Education A, Room: A1
Chair(s): Deborah Shields
1. Mining and SD: implementation of undergraduate and graduate courses at four universities
van Zyl, D., T. Iannachioni, J. Craynon and E. Sarver
 2. Building minerals education capacity in Africa - The first steps
Laurence, D. and M. Hermanus
 3. The next generation of mineral industry professionals - Industry expectations and how best to train them
Jeffrey, K.
 4. Assessing the familiarity of students in engineering with sustainability
Aktsoglou, D., K. Angelakoglou and G. Gaidajis
 5. Challenges of promoting sustainability in the Namibian minerals education
Musiyarira, H., D. Tesh and G. Dzinomwa
- 11:30-13:00:** Technological Developments A, Room: A2
Chair(s): Lee Daniels
1. Deep zero-impact mines of the future - The European I2Mine-Project
Falck W.E. and H. Hejny
 2. Near-to-face processing - An approach towards improved primary resource efficiency
Dammers, M., C. Schropp, P.N. Martens, L. Rattmann and C. Robben
 3. Some principles of expert systems for environment and mining
Rumenjak, D., D. Rajkovic and S. Stambuk
 4. Evaluation of unfolding techniques for grade and resource estimation of tectonically deformed deposits
Kapageridis, I.K., K. Koios and N. Ioannidis
 5. New philosophy of coal extraction
Bondarenko, V.



11:30-13:00: Social Contributions and Local Communities A, Room: B3

Chair(s): Fiona Haslam Mckenzie

1. Beyond science and engineering: Tackling socio-environmental issues in the resources industry
Everingham, J., N. Collins, T. Baumgartl, S. Vink, D. Mulligan, W. Rifkin, D. Rodriguez and J. Cavaye
2. Using a Due Diligence approach to managing business environment performance health
Baker, P.
3. Financial assurance for mine reclamation: An examination of Alberta's oil sands regulations
Thorley, U.
4. The role of science in public ecology and sustainable development in mining
Craynon, J.R., E.A. Sarver and M.E. Karmis
5. The WBCSD cement sustainability initiative and the leadership of TITAN cement: An important opportunity and a long-term commitment
Alexiou, M., A. Katsiamboulas, J. Mastoris, C. Seretis and F. Tasoulas

13:00-14:00: Lunch, Room: B1

14:00-15:45: Capacity Building and Human Resources, Room: A1

Chair(s): David Laurence

1. Wellbeing of fly-in/fly-out and drive-in/drive-out employees: Evidence from Australia
Tuck, J. and E.C. Temple
2. Involving stakeholders in a meaningful way in decision making on mine sites - The strategies of the EO-Miners research project
Falck, W.E. and J.H. Spangenberg
3. Titan Antea cement plant: Education for sustainable development in the case of a Greenfield plant, in an emerging economy (Albania)
Alexiou, M., A. Kalogerakos, C. Caracostas and J. Mastoris
4. Oil development and social acceptance in Greece: The Katakolo field case
Vergoulis, P. and D. Damigos
5. IdleNoMore and reinvigorated aboriginal activism: Risk or opportunity for Canada's extractive sector
Johnson, A.
6. A multi-dimensional and dynamic view of corporate social responsibility
Zu, B., Z. Li, Y. Zhao and C. Li

14:00-15:45: Technological Developments B, Room: A2

Chair(s): Christos Roumpos

1. Development of a decision support instrument of mine-wide operations for Agnico Eagle Kittila mine
Song, Z., M. Rinne and A. van Wageningen
2. "Blue Mining" - The future of mining
Langefeld, O. and M. Kellner
3. Challenges in deep mine rescue within the European I Mine Project
Lehnen, F., P.N. Martens and L. Rattmann
4. Orogenic mineralizations - A new exploration target for gold-polymetallic ore deposits in Greece
Michael, C., N. Arvanitidis, A. Iliadis, K. Papavasileiou and C. Christidis
5. Underground coal gasification: A case study on the Kozani lignite deposits
Koukouzas, N. and I. Katsimpardi



14:00-15:45: Health and Safety, and Risk Management, Room: B3

Chair(s): Bruce Hebblewhite

1. Greater site and community security through partnerships
Hendry, K.
2. Water resources management, risk assessment, and mitigation: A 5-year program for Titan Cement in Zlatna Panega Plant, Bulgaria
Dragasakis, K., J. Mastoris, E. Shilegarska, A. Pophristova and M. Dimitrov
3. Transfer for good: Requisites of Southeast Asian coal mining industries in applying a risk management system from Germany
Kretschmann, J. and N. Nguyen
4. Production data and Sustainable Development Indicators (SDIs) for the Greek mining/metallurgical industry in the period 2007-2011
Tzeferis, P.G., C. Kavalopoulos and K. Komnitsas
5. Occupational health & safety management at PPC's lignite mines
N. Galitis, A. Dimitriou and Th. Vlachos

15:45-16:15: Coffee Break, Room: B1

16:15-17:45: Technological Developments C, Room: A1

Chair(s): Bern Klein

1. Evaluation of micro-bubble flotation for treating ultra-fine particles and improvement by applying ultrasonic irradiation
Owada, S., E. Matsunaga and N. Kuroki
2. Use of biosolids and its main component as frothers and collectors for the concentration of copper sulphide ores
Reyes-Bozo, L., J.L. Salazar, H. Valdes-Gonzalez, E. Vyhmeister, A. Godoy-Faundez and R. Herrera-Urbina
3. Marine Aggregates deposits - MARE project
Stamatakis, M., S. Poulos, A. Tsoutsia, N. Papavlassopoulou, A. Karditsa, M. Anastasatou, A. Velegrakis, T. Hasiotis, V. Kapsimalis and G. Roussakis
4. Applications of geothermal energy in mineral processing
Fytikas, M. and N. Andritsos
5. Sustainable use of resources into fired clay bricks
Samaras, P., V. Karayannis, X. Spiliotis, K. Ntampeglitis and G. Papapolymerou

16:15-17:45: Sustainable Mining Practices A, Room: A2

Chair(s): Dirk Van Zyl

1. The importance of confining strata integrity in mining, coal seam gas extraction and geological storage of industrial waste (CO₂ and nuclear): towards early detection indicators of potential groundwater contamination
Bouzalakos, S. and W.A. Timms
2. Indicators of reclamation success for mineral sands mining in the USA
Daniels, W.L. and Z.W. Orndorff
3. A model for stakeholder engagement in mineral exploration in Finland
Eerola, T.
4. Assessing the progress of mining industry towards sustainability: In need of new methodological frameworks
Angelakoglou, K. and G. Gaidajis
5. Dealing with controversies over gold mining projects: A case study from Greece
Damigos, D., M. Menegaki and D. Kaliampakos

16:15-17:45: Social Contributions and Local Communities B, Room: B3

Chair(s): Phil Baker

1. Industry diversification in remote Western Australia: Managing community expectations and planning for enduring value
Haslam McKenzie, F.
2. Corporate social responsibility and the future of mining in Greece
Kolovos C.J.
3. Supporting mining community development through economic diversification: The adoption of Enterprise Facilitation (EF)TM in Cobar, Australia
McFaul, S., N. Mafu and A.M. Xavier
4. Stakeholder engagement of mineral exploration companies in Finland
Ziessler, S., T. Eerola and M. Tuusjarvi
5. Socio-economic mine closure (SEMC) guideline: A management tool for addressing the social and economic challenges of mine closure and to contribute to community sustainable development
Xavier, A.M., M.M. Veiga and D. van Zyl
6. The economic impact of mining activity on Milos Island
Tserkezis, L. and A. Tsakanikas

20:00-22:00: Banquet

TUESDAY 2 JULY, 2013

08:00-17:00: Registration, Room: Lobby Area

09:00-10:30: SNAP-SEE, Room: A1

Chair(s): Gian Andrea Blengini

1. Data and methodologies for a resource-efficient planning of primary and secondary aggregates in South East Europe (SEE) countries
Blengini, G.A., A. Moltre, M. Valbusa, K. Komnitsas, Z. Agioutantis and E. Garbarino
2. Sustainable aggregate resources management and planning issues in south east Europe: From SARMA to SNAP-SEE project
Hatzilazaridou, K., F. Chalkiopoulos and D. Shields
3. Stakeholder identification in the planning phase of aggregate and quarrying projects
Komnitsas, K., Z. Agioutantis, D. Shields, G.A. Blengini and P.G. Tzeferis
4. Sustainable aggregates planning in South East Europe
Tiess, G. and D.J. Shields
5. Stakeholder involvement as a key factor for sustainable aggregates planning and management
Dolinar, U. and Z. Kozinc
6. The potential and perspectives to promote and develop policies in order to achieve sustainable aggregates planning in Greece (SNAP-Greece)
Chalkiopoulos, F., K. Hatzilazaridou, N. Arvanitidis, P.G. Tzeferis, K. Alexiou and G. Tiess

09:00-10:30: Environmental Conservation and Climate Change B, Room: A2

Chair(s): John Craynon

1. Mining and climate change mitigation via the Clean Development Mechanism
Taplin, R., M. Blommerde, N. Uddin and D. Laurence
2. Reducing the environmental footprint in the industrial mineral sector: Case studies and industry innovation initiatives
Shtiza, A., R. Doome and M. Wyart



09:00-10:30: Environmental Conservation and Climate Change B, Room: A2 [Continued]

3. Coal quality control techniques and selective grinding as means to reduce CO2 emissions
Vamvuka, D., M. Galetakis and C. Roumpos
4. Biodiversity Programme in two quarries in the Volos area
Assimakopoulos, K.
5. Titan Patras cement plant: Biodiversity study for the Artimes limestone quarry
Papanikolaou, I. G. Iatrou, M. Panitsa, N. Papageorgiou and A. Katsiamboulas

09:00-10:30: Technological Developments D, Room: B3

Chair(s): George Gaidajis

1. Triboelectric belt separator for beneficiation of fine minerals
Bittner, J.D., S.A. Gasiorowski, F.J. Hrach, L.A. Canellopoulos and H. Guicherd
2. Mineralogical composition of the Olympias tailings in NE Chalkidiki, N. Greece
Zaimis, S., M. Vavelidis, V. Melfos, N. Kantiranis, D. Alifragkis and M. Daftsis
3. Assessment of environmental impact of surface mining equipment
Lashgari, A. and V. Kecojevic
4. Chromium stabilization in tannery sludge using phosphogypsum
Zouboulis, A., E. Pantazopoulou, O. Zebiliadou, F. Noli, M. Mitrakas and P. Samaras
5. Backfilling technologies for Estonian oil shale mines
Valgma, I., M. Kolats, A. Anepaio, V. Vaizene, M. Saarnak and J.-R. Pastarus

10:30-11:00: Coffee Break, Room: B1

11:00-12:30: WFEO Technical Presentations, Room: A1

Chair(s): Nikhil Trivedi

1. WFEO-CEE Task Group on Sustainability and Mining
Trivedi, N.
2. A methodology to integrate sustainable development performance in the mine design and planning process: A case study
Botin, J.A. (presented by D. Shields)
3. WFEO Task Force: Environmentally sound engineering technologies and practices in mining
van Zyl, D., M. Chanda and J. Brune
4. Some examples of reuse, repurposing and recycling of minerals to improve the resource efficiency in mining
Kojo, I.V., M.A. Reuter and K. Heiskanen
5. A framework of toolbox for risk management in the minerals sector
Z. Li, G. Lyu, T. Li, Y. Zhao and C. Li
6. WFEO Thematic Area 3 - Best practices in Eco-efficient use of resources
Moran, C.

12:30-14:00: Lunch, Room: B1

14:00-15:30: Alternative Perspectives on Mining and Sustainable Development, Room: A1

Chair(s): John Hayden

Panel Participants: Danyluk, D., Kogel, J., Karmis, M.

14:00-15:30: Sustainable Energy and Land Use, Room: A2

Chair(s): Oliver Langefeld

1. The energy transition in Germany - Coping with the third industrial revolution
Zwinge M.
2. Is there any future for EU Energy Road Map 2050?
Leonardos. M.



14:00-15:30: Sustainable Energy and Land Use, Room: A2 [Continued]

3. Application of an indicators-based tool for the evaluation of alternatives for sustainable mining/mineral processing operations in NATURA 2000 and other protected areas
Marnika, E. and E. Christodoulou and A. Xenidis
4. Mining waste management of Estonian mineral resources
Karu, V., J. Gulevits, T. Rahe, R. Roots, R. Iskul and A. Polder
5. Sustainable reclamation scheme for bauxite mines by implementing GIS tools
Argyriou, A., A. Adam, D. Papakonstantinou and K. Cassios

14:00-15:30: Environmental Conservation and Climate Change A, Room: B3

Chair(s): Nikos Arvanitidis

1. The suitability for rehabilitation and the resistance to grazing of II plant-species in bentonite deposits in Milos Island
Brofas G., G. Mantakas, C. Varevides, G. Petrakis
2. Installation of natural vegetation on old tailing disposal area at Olympias Halkidiki mine after chemical stabilization and phytoremediation
Alifragkis, D., H. Voulgaridou, M. Voulgaropoulou, M. Vavelidis, M. Orfanoudakis, E. Gazea, A. Galatsianou and M. Alifragki
3. Mycorrhizal effectiveness on growth and tolerance of Nerium oleander plants, at ore disposal sites located in NE Chalkidiki
Orfanoudakis, M., M. Alifragi and A. Pavlatou-Ve
4. Investigation of the effect of soil replacement and fertilization on the improvement of calcareous mining spoils productivity in mountain Ghiona-Central Greece
Brofas, G., G. Mantakas, C. Varevides and C. Mermiris
5. Relocation of Soulou Trench, in PPC's mines, Ptolemais, Greece
Giouli, G., K. Machtis and A. Sokratidou

15:30-16:00: Coffee Break, Room: B1

16:00-17:30: Posters, Room: Poster Area

1. Greek national policy for the exploitation of mineral resources
Greek Ministry of Environment, Energy and Climate Change (YPEKA)
2. Innovative approaches to extend the life of surface mining operations
Siefert, M., G. Jandl, H. Wagner and H. Blaha
3. Sustainable energy planning of Greek Islands
Agioutanti, E. and T.D. Tsoutsos
4. Improving the health protection of high north miners
Skandfer, M., L.V. Talykova, T. Brenn, T. Nilsson and A. Vakt skjold
5. Surface water and groundwater management in West Macedonia Lignite Center
Andreadou, S., F. Pavloudakis, C. Sachanidis and S. Tsouflidou
6. Assessing the environmental footprint of selected industrial minerals by means of life cycle inventory analysis: A sectoral study
Shtiza, A., R. Doome and M. Wyart
7. Steps forward aesthetic reclamation of mine "Rallaki" in Milos Island
Balomenou, P., M. Lambrou, C. Cassios and S.G. Alonso
8. Conventional flotation to recovery carbon matter from coal tailings
Gonzalez Davilla, G.B. and I.A. Schadach de Brum
9. Mining and Tourism on Milos: MILOTERRANEAN Geo Experience
Tzintzos, S.
10. Upgrading mining waste to develop added value final products
Aggelatou, V., E.I.P. Drosos, Th. Zampetakis, A. Meidani, S. Dambitziias and N. Arvanitidis
11. Stoicism project and sustainable development in industrial minerals
Jouffret, F., D. Moseley, M. Baricot, A. Coe, P. Chauhan and S. Moradi



16:00-17:30: Posters, Room: Poster Area [Continued]

12. Setting the Standard for CCUS
Carpenter, S.M.
13. Sustainable Mining Approach to Sangan Iron Ore Mines Project
Kretschmann, J., R. Amiri and F. Rashidinejad
14. Material Flow Analysis and Sustainability Evaluation on resource management in Korea
Kim, Y.

16:00-17:30: Sustainable Mining Practices C, Room: A1

Chair(s): Vlad Keckojevic

1. Underground limestone mines - Case histories of sustainable industrial, research and commercial use
Newman, D.
2. A quest for sustainability: Environmental and social aspects of mining design in Chalkidiki, Greece
Papagrigoriou, S., Y. Katselis and G. Tentes
3. Best practices for geotechnical planning and design in open pit mining operations - A sustainable engineering approach
Steiakakis, C., Z. Agioutantis, P. Schilizzi, E. Papakosta, A. Tsalidis and G. Pagonis
4. Strategic mine planning of surface mining projects incorporating sustainability concepts
Roumpos, C. and E. Papacosta
5. Challenges for adapting the sustainable development concept in Thailand's minerals industry
Sakamornsnguan, K., T. Katz, P.N. Martens and J. Kretschmann

16:00-17:30: Sustainability in Minerals Education B, Room: A2

Chair(s): Ingo Valgma

1. Integration of safety and risk management into the University of Utah's mining engineering curriculum
Nelson, M.G. and T.A. Hethmon
2. An assessment of environmental learning in US mining engineering schools
Wright, M.A.
3. Filling the gaps in sustainability management by characterising co-accountability networks
Kunz, N.C., C.J. Moran and T. Kastle

18:00-20:30: Miloterranean Geoexperience in Coordination with Mine Site Visit

WEDNESDAY 3 JULY, 2013

08:00-17:00: Registration, Room: Lobby Area

09:00-10:50: Sustainable Mining Practices B, Room: A1

Chair(s): David Newman

1. Multi-scaled, mixed-method research: An approach to understanding complex local and regional socio-economic effects of global mining operations in regional Australia
Hoath, A. and F. Haslam McKenzie
2. Mining in consistency with long term planning: A key element to social acceptance
Kolovos, C.J.
3. Heap leaching technique in mining within the context of best available techniques (BATs)
Zanbak, C.
4. Rare earth elements: Building a best practices roadmap to sustainable mining
Kamenopoulos, S.N. and Z. Agioutantis



09:00-10:50: Sustainable Mining Practices B, Room: AI [Continued]

5. Case studies on effective quarry rehabilitation and biodiversity management: Awarded initiatives for Titan America in the Center Sand (Florida), and Roanoke Cement (Virginia) operations
Mastoris, J., K. Dragasakis, L. Clark and K. Folsom
6. A contribution to sustainable development in Vietnamese hard coal mining by mine dust mitigation and waste rock dump stabilization
Martens, P.N., T. Katz, I. Oezdemir, A. Foerster and M. Fuchsschwanz

09:00-10:50: Technological Developments E, Room: A2

Chair(s): Michael Stefanakis

1. GIS-based mineral resources maps - A valuable exploration tool for discovering potential ore deposits in Greece
Arvanitidis, N.D., C. Michael, C. Christidis, D. Cassard, G. Bertrand, G. Perantonis, D. Ballas, V. Bakalis, G. Gaal and J. Kaija
2. Multicriteria risk analysis for the classification of closed extractive waste facilities
Adam, A., A. Liakopoulos and I. Xenidis
3. The effect of fine aggregate properties on the quality of composite materials
Fournari, R., D. Vatyliotis and I. Ioannou
4. Using 3D/4D modeling tools in exploration of gold-polymetallic potential areas in Greece
Arvanitidis, N.D., C. Michael, C. Christidis, P. Weihed, G. Gaal, J.J. Royer, G. Perantonis, V. Bakalis and D. Ballas
5. Possibilities for mitigating negative effects of noise and dust caused by extraction of sand, gravel and peat
Orru, M., H. Milvek, A. Anepaio, S. Vendla and I. Valgma
6. Prediction of iron ore mine closure causes under uncertainty condition, using Vikor technique
Minaei Mobtaker, M. and M. Osanloo

09:00-10:50: Sustainability Reporting, Room: B3

Chair(s): Thomas Androulakis

1. Sustainability: Is the GRI enough?
Mangos, N.
2. Corporate sustainability reporting for water: Water footprint, global reporting initiative and the water accounting framework
Danoucaras, A.N., A. Woodley and S. Vink
3. A perspective on mining and corporate social responsibility projects
Yilmaz, M.
4. 'Milos+10' for the Titan Cement Group Sustainability Reporting: The history of learning, the success story, and the road ahead
Alexiou, M., J. Mastoris, C. Seretis and F. Tasoulas
5. Mining company sustainability reporting in the Macquarie and Lachlan catchments, NSW, Australia: Usability for local community needs
Leong, S., R. Taplin, W. Timms, D. Laurence and J. Hazleton
6. CSR and Law: How they interact
Voulgari D.

10:50-11:15: Coffee Break, Room: BI

11:15-12:00: Conference Closing, Room: AI

Chair(s): Michael Karmis, Dirk Van Zyl, Deborah Shields

12:00-13:00: Lunch, Room: BI



SDIMI2013

SUSTAINABLE DEVELOPMENT IN THE MINERALS INDUSTRY

The main objective of this series of conferences is to assist the global minerals industries in their transition to sustainable development.

The first conference, **SDIMI 2003**, was very successfully held in the island of Milos, Greece and attracted 200 international attendees. On that occasion, the “Milos Declaration” was adopted, a statement of contribution to a sustainable future through the use of scientific, technical, educational, and research skills and knowledge in minerals extraction and utilization that was endorsed by the leading global professional and scientific organizations and institutes representing the minerals professional.

The second conference in this series, **SDIMI 2005**, was held in Aachen, Germany, and was again a successful forum in convening the minerals community engaged in sustainable development, with particular emphasis on sustainability indicators, data evaluation and reporting and life-cycle assessment and product stewardship.

SDIMI 2007 returned to Milos, Greece. The focus of the meeting was on issues of benchmarking, SD value creation, operationalization of SD, creation of knowledge hubs, modeling and fiscal issues and best practices and tools. The meeting provided opportunities for presentations and panel discussions. The Conference was organized in three tracks representing a variety of stakeholders, which can provide guidance and direction to the minerals community on the path to sustainable development.

SDIMI 2009 was held in Brisbane, Australia, 6-8 July. Themes included: Frameworks and tools for integrating sustainable development considerations into mine and plant design, Innovative methodologies for measuring sustainable development performance at the operational, corporate and industry level, Mining and minerals processing in a carbon-constrained world: reducing the GHG footprint, Sustainable development challenges in emerging mining countries, Community impacts and benefits of mineral resource developments, Stewardship and the management of products and wastes, Cumulative impacts of intensive resource development, Advances in life cycle and sustainability assessment, Industrial and regional synergies, Overcoming the barriers to the uptake of sustainability innovations, Integration of sustainability thinking into professional education.

SDIMI 2011 was held again in Aachen, Germany in the framework of the AIMS conference. Organization was very successful and delegates from many countries attended the event. A young professionals event attracted a lot of attention.

For more information on the SDIMI conferences please visit www.sdimi.org



Συνεδριακό Κέντρο Μήλου
Γεώργιος Ηλιόπουλος

Milos Conference Center
George Eliopoulos

<http://sdimi2013.conferences.gr>