

# Program



Milos Conferences

3<sup>rd</sup> INTERNATIONAL CONFERENCE

## **Sustainable Development Indicators**

in the  
**Minerals  
Industry**

(SDIMI 2007)

17 - 20 June 2007

Milos Conferences Center - George Eliopoulos

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- **Stutsel Melanie**, Minerals Council of Australia, Australia
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- **Voulgaris Emmanuel J.**, Milos Conference Center - George Eliopoulos, Greece

### Organizers

The Conference is jointly organised by:

- Virginia Tech, USA
- The Aachen University of Technology (RWTH), Germany
- The Technical University of Crete, Greece
- The University of Queensland, Australia

The conference is a Milos Conferences event.

### Conference Secretariat


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# program

**Monday 18<sup>th</sup> June 2007**

*09:00 - 09:15 Conference Opening*

D. Sioufas, Minister of Development, Greece

*09:15 - 09:30 Welcome Remarks*

Representatives of Local Authorities

*09:30 - 11:00 Keynote Session*

Chairs: **Michael Karmis**, Virginia Tech, USA

**Emmanuel J. Voulgaris**, "Milos Conference Center - George Eliopoulos", Greece

Sustainable Development at Rio Tinto

*P. Chiaro, UK*

Strategic Drivers of the Mining Industry: From Enclave Production to Industrial Clusters

*P. van der Veen, G. McMahon, USA*

The Sustainable Development Charter, Greece

*E. Vidalis, Greece*

*11:00 - 11:30 Coffee Break*

*11:30 - 13:00, ROOM A*

*Definitions and Policies in Resource Use and Supply*

Chair: **Per Nicolai Martens**, RWTH Aachen, Germany

Raw Materials Supply Issues in the European Union

*P. Anciaux and H. Pietersen, Belgium*

Mineral Policy in the Era of Sustainable Development: Historical Context and Future Content

*D. Shields, S. Šolar, M. Miller, USA/Slovenia*

Thematic Strategy on the Sustainable Use of Natural Resources

*W. Bosmans, Belgium*

Determinants of Mineral Supply and Depletion Issues - Case of Fossil Fuels

*K. Al-Rawahy, Oman*

11:30 – 13:00, ROOM B

*Country Perspectives on Mineral Sustainability*

Chair: **Dirk Van Zyl**, University of Nevada, USA

African Mining Observatory (AMO): An Initiative to Support a Sustainable Management of Mineral Resources in Africa

*G. Récoché and A. Chamaret, France*

Connections in the Goldmining Sector of Burkina Faso

*S. Luning, The Netherlands*

Tools for Sustainable Management of Gold Resources in Greece

*N.D. Arvanitidis, Greece*

Sustainable Development Indicators for the Greek Industrial Minerals Sector

*K. Valta, K. Komnitsas, and M. Grossou-Valta, Greece*

11:30 – 13:00, ROOM C

*Community Engagement and Information Sharing*

Chair: **Kay O'Regan**, Earthwatch Institute, UK

Value Creation from SD Indicators - For Mining Companies, Communities and Policy-Makers

*E. Turner and M. Tost, France (presented by K. Gollogly)*

Measuring What Matters: Monitoring the Contribution of a New Mining Project to Community Sustainability

*D. Brereton and C. Pattenden, Australia*

The Office of Surface Mining's "Reclaim the Future!" Initiative

*S. Rideout, Jr. and J. Craynon, USA*

The Minerals Industry and Sustainable Development. Are We Talking to the Right People - Are We Sending the Right Message?

*K. Nielsen, Norway*

*13:00 – 14:00 Lunch*



14:00 – 15:30, ROOM A

*Theories and Models towards Understanding Sustainability*

Chair: **Deborah Shields**, USDA Forest Service, USA

*Material Stewardship – Best Practices in the Mining & Metals Industry*

*K. Brady and C. Bocher, Germany*

*National Minerals Policy Practices: Key to Minerals Supply in Europe*

*H. Wagner, G. Tiess, S. Šolar and K. Nielsen, Austria/Slovenia/Norway*

*Mining Sustainability Model for Ghana: Developing and Implementing*

*M.B. Thorpe and D. Owiredu, USA/Ghana*

*An Addition to the Definition of the Sustainable Development Index in the Field of Metal Raw Materials*

*N. Magdalinovic, M. Magdalinovic-Kalinovic and D. Mihajlovic, Serbia*

14:00 – 15:30, ROOM B

*New Sustainability Indicators*

Chair: **Nikos Arvanitidis**, IGME, Greece

*Measures of Innovativeness as Indicators of Sustainability*

*P.M. Godinho, Austria*

*Development of Sustainability Indicators for the Assessment of Alternative Management Systems of Spent, Portable Batteries*

*K. Adam, N. Voudouris, F. Chalkiopolou, C. Zografidis, and I. Vassilopoulos, Greece*

*Some Possibilities for Construction of Linguistic Variables for Sustainable Development Decision Making*

*A. Rumenjak, D. Rajković and B. Salopek, Croatia*

*Equipment Reliability: An Indicator for Sustainable Development in Mining*

*N. Vayenas, Canada*

14:00 – 15:30, ROOM C

*Social License to Mine and CSR*

Chair: **David Breerton**, The University of Queensland, Australia

*Research Studies on Building Social License within Mineral Exploration*

*J. Nelsen and M. Scoble, Canada*

Cumulative Impacts of Coal Mining on a Regional Community  
*C. Moran, D. Brereton, G. McIlwain and J. McIntosh, Australia*

The Corporate Responsibility Rating of the Metals & Mining Sector  
*K. Rüter, Germany*

Drivers of Reputation in the Australian Mining Industry  
*J. Tuck, Australia*

*15:30 - 16:00 Coffee Break*

*16:00 - 17:30, ROOM A*

Panel Discussion I: Ensuring Sustainable Supply: A Shared Responsibility

Chairs: **Deborah Shields**, Principal Mineral Economist, USDA Forest Service, USA and **Hans-Sierd Pieteresen**, DG Enterprise & Industry, EU Commission, Belgium

Panelists: **Athanassios Kefalas**, Operations Manager, Bentonite Division and Milos Site Manager, S&B Industrial Minerals S.A., Greece

**John Craynon**, Chief, Division of Regulatory Support, Office of Surface Mining, Reclamation and Enforcement, U.S. Department of Interior, USA

**Kevin Brady**, Director, Five Winds International, Canada

*20:00 - 22:00 Banquet*

## **Tuesday 19<sup>th</sup> June 2007**

*09:00 - 10:30, ROOM A*

*Promoting Sustainability via Research, Education and Leadership*

Chair: **Hans-Sierd Pieteresen**, European Commission, Belgium

*Steeluniversity.org: A New Internet E-Learning Resource on Sustainability*

*J. Pflieger and R. Hambleton, Germany/Belgium*

*Integrating Sustainable Development Principles into Educational Process*

*K. Al-Rawahy, Oman*

*A Process for Stakeholder Education and Engagement in Sustainable Energy: The Carbon Sequestration Case*

*M. Karmis, N. Ripepi, M. Radcliffe, B. Altizer, USA*

*Strategic Leadership Towards Sustainability*

*J. Paunkovic and N. Paunkovic, Serbia*

09:00 – 10:30, ROOM B

*Innovation in Sustainable Development*

Chair: **John Craynon**, Office of Surface Mining, USA

Mineral Dust Emissions Generated in Norwegian Surface Mineral Production - Sources, Requirements and Monitoring Programmes  
*H.T. Mikkelsen and T. Myran, Norway*

Sustainable Drilling for Oil and Gas: Challenging Drilling Environments Demand New Formulations of Bentonite Based Drilling Fluids  
*V. Kelessidis, Greece*

Recovery Silver and Gold by Direct Oxidative Pressure Cyanidation  
*J.R. Parga , J.L. Valenzuela, H. Moreno and D.L. Cocks, Mexico/USA*

Determination of Radon Concentration in Water Samples from Argolida by the Liquid Scintillation Technique  
*N. Zouridakis and A. Savidou, Greece*

09:00 – 10:30, ROOM C

*Linking Community Capacity to Sustainable Development*

Chair: **Gavin Hilson**, The University of Manchester, UK

Sustainable Regional Development – A New Way to Build Prosperity for Indigenous People in Australia  
*J. Gawler, Australia*

Giving Back to the African People: Fostering Rural Community Development Through Mineral Development Funds  
*S.A. Shahnawaz, UK*

An Integrated Multi-Criteria Approach to Enhancing the Business Value of Community Investment at Mine Sites  
*A.M. Esteves, Australia*

Rethinking Capacity Building  
*K. Konialis, K. Komnitsas and Z. Agioutantis, Greece*

*10:30 – 11:00 Coffee Break*



11:00 – 12:30, ROOM A

Panel Discussion II: Integrating Sustainability in Capacity Building

Chairs: **Dirk Van Zyl**, Chair, Department of Mining Engineering, University of Nevada-Reno, USA and **Chris Moran**, Director, Centre for Water in the Minerals Industry, The University of Queensland, Australia

Panelists: **Dan Hellige**, Safety and Sustainable Development, Caterpillar Global Mining, USA

**Julia Pflieger**, Chair of Building Physics, Department of Life Cycle Engineering, Stuttgart University, Germany

**Mark Thorpe**, VP Sustainability, GSR, USA

12:30 – 14:00 Lunch

14:00 – 15:30, ROOM A

*Ensuring Environmental Sustainability*

Chair: **Dan Hellige**, Caterpillar Global Mining, USA

*Pan-European Underground Drainage Water Management Research Centre – A Contribution to Sustainable Water Management in Europe*

*H. Hejny and M.L. Faull, Germany/UK*

*The ECOMINING Platform Accomplishment for the Promotion of Romanian Research and Innovation Potential*

*Gy. Deák, Șt. Deák, D. Georgescu and M. Zlăgnea, M.S. Găman and Z. Seprödi, Romania*

*Assurance Methods: A Welfare Analysis*

*J. Roufagalas and G. Santopietro, USA*

*Sustainable Development Approach of the Perama Hill Gold Project*

*G. Markopoulos, Greece*

14:00 – 15:30, ROOM B

*Sustainable Management of Practices, Processes and Wastes*

Chair: **Carol Russell**, U.S. Environmental Protection Agency, USA

*Proactive Safety Practices at S&B Industrial Minerals S.A.*

*M. Stefanakis, Greece*

Erosion - Advantages and Disadvantages of Sustainable Development and the Process of Exploitation of Mineral Resources

*N. Magdalinovic, R. Jovanovic and N. Simeonovic, Serbia*

A Study on Best Available Techniques for the Management of Stone Wastes

*G. Papantonopoulos, M. Taxiarchou, N. Bonito, K. Adam and I. Christodoulou  
Greece/Portugal*

Linking IBA's and Project Management - A Case Study

*S. Moutsatsos, V. Kazakidis and J. Fowler, Canada*

The Residual Radioactivity Influence Monitoring From Technological Wastes For Chemical Fertilizers Factories With Soil And Plants From Bordering Areas

*Gh. Crutu, C. Manea, G. Groposila and N. Groza, Romania*

Tuesday 14:00 – 15:30, ROOM C

*Sustainability Evaluation*

Chair: **Julia Pflieger**, Stuttgart University, Germany

Sustainability Indicators for Mining Projects: Assuring a Representative Diversity of Stakeholders and Issues. Application to the Uranium Mines in Arlit (Niger)

*A. Chamaret, M. O'Connor, and G. Récoché, France*

Evaluation of Resource Management Plans in Nevada Using Seven Questions to Sustainability

*D. van Zyl, J. Lohry, and R. Reid, USA*

Sustainable Development in Mining Projects: Empirical Evaluation of a Project

*M.B. Diaz Aguado and C. González Nicieza, Spain*

European Environment Agency - Ex-post evaluation of aggregate taxes

*D. Legg, G. Dige, M. Mazzanti, S. Paleari, R. Zoboli, M. Herczeg, R. Bleishwitz, M. Skovgaard, H. Leveson-Gower, UK*

*15:30 - 16:00 Coffee Break*

16:00 – 17:30, ROOM A

Panel Discussion III: Stakeholders Expectations

Chairs: **Kay O'Regan**, Corporate Partnerships Manager, Earthwatch Institute (Europe), United Kingdom and **David Breerton**, Director, Centre for Social Responsibility in Mining (CSRM), The University of Queensland, Australia



Panelists: **Rena Koumantou**, Director of Corporate Social Responsibility & Communication, S&B Industrial Minerals S.A., Greece

**Kirsten Gollogly**, Adviser – Sustainable Development, Communications and External Relations, Rio Tinto Minerals, United Kingdom

**Gavin Hilson**, Lecturer, International Development, Institute for Development Policy and Management, University of Manchester, United Kingdom

*17:30 – 19:30 Reception*

### **Wednesday 20<sup>th</sup> June 2007**

08:30 – 10:30, ROOM A

*Applying Sustainability in Coal Mining*

Chair: **Hans Naumann**, Marshall Miller & Associates, Inc., USA

*Integrating Sustainability in Coal Mining Operations*

*J.R. Craynon and M. Karmis, USA*

*Coal in the EU Energy Power. Current Challenges and Barriers to Cleaner Coal Power*

*K. Kavouridis and N. Koukouzas, Greece*

*Evaluation of Nonrenewable Lignite Resources by Means of Sustainability Indicators*

*N. Špeh and I. Veber, Slovenia*

*Sustainability Indicators for Lignite Open Cast Mines of Greek Public Power Corporation S.A. in Ptolemais Area of Western Macedonia, Greece*

*I. Tsolas, G. Pagonis, L. Patmanidou and A. Sokratidou, Greece*

*A Geostatistical Study of Lignite Spatial Variations in the Multilayer Deposit of the Amyndeo Mine in Northern Greece*

*A. Pavlides, D.T. Hristopoulos, Z. Agioutantis, K. Kavouridis and Ch. Roumpos Greece*

08:30 – 10:30, ROOM B

*Aspects in Reclamation and Rehabilitation*

Chair: **Ioannis Paspaliaris**, NTUA, Greece

*Rehabilitation of Disturbed Areas by Mining Activities in High Floristic Diversity Areas: The Case of Mt Giona*



*G. Brofas, P. Trigas, G. Mantakas, G. Karetsos, C. Thanos, K. Georghiou and Chr. Mermiris, Greece*

**Development of Indicator Based Revegetation SDSS in Areas Affected by Mining Activities**

*X. Zhu, D. Li and K. Komnitsas, China/Greece*

**Study of Fauna in a Bauxite Mining Area in Central Greece**

*A. Sfougaris, Greece*

**The Effect of Phytotechnic Treatment on Establishment and Survival of Different Grass Species and Cultivars at a Limestone Quarry**

*E.M. Abraham, Z. Koukoura and P. Kostopoulou, Greece*

**Factors Affecting Tree Growth in Bauxite Mining Wastes**

*K. Tsiouvaras, A. Kyriazopoulos, A. Karagiannidis, P. Rakimbei, N. Barbayiannis and V. Keramidas, Greece*

**08:30 – 10:30, ROOM C**

**Sustainability Reporting**

Chair: **Kevin Brady**, Fivewinds, Germany

**Making Company Sustainability Reporting More Efficient: Web-Based Collection, Analysis and Reporting of Sustainability Data Using the Software System SoFi**

*T. Motzer, A. Saraev, J. Gediga and J. Pflieger, Germany*

**Implementation of Reporting Code Guidelines for Mineral Resources and Mineral Reserves Using a General Mine Planning Package**

*I. Kapageridis, Greece*

**Balancing the Costs and Benefits of Government and Corporate Sustainability**

*S. Šolar and D. Shields, Slovenia/USA*

**Third Party Certification as an Emerging Form of Regulation in the Minerals Industry**

*P. Schiavi and G. Lawrence, Australia*

**10:30 – 11:00 Coffee Break**

11:00 – 13:00, ROOM C

*Post-Mining Land Use Issues*

Chair: **Kostas Kavouridis**, TUC, Greece

Premature Mine Closures - Causes and Effects

*D. Laurence, Australia*

Alternative Uses of Rehabilitated Mine Land

*M. Papatotiriou and G. Petrakis, Greece*

Towards a Framework for the Sustainable Use of Legacy Mine Land in Queensland, Australia

*R. Worrall, D. Neil, D. Brereton and D. Mulligan, Australia*

Recultivation and Resettlement in the Rhenish Lignite Mining Area  
- Stakeholder Dialogue as an Important Element of Sustainable Development

*M. Eyll-Vetter and P. Eysel, Germany (presented by J. den Drijver)*

Sustainability in Mineral Industry through the Application of Biotechnology

*V. Angelatou, Greece*

*10:30 – 11:00 Coffee Break*

13:00 – 14:00, Conference Conclusion, ROOM A

Chairs: **Michael Karmis**, Virginia Tech, USA (SDIMI Series) and **Per Nicolai Martens**, Rheinisch Westfaelische Technische Hochschule Aachen, Germany (SDIMI 07)

Panelists: **Deborah Shields**, USDA Forest Service, USA (Track A and Panel I)

**Dirk Van Zyl**, Univ of Nevada-Reno, USA (Track B and Panel II)

**Kay O'Regan**, Earthwatch Institute (Europe), UK (Track C and Panel III)

**David Brereton**, University of Queensland, Australia (SDIMI 09)

*14:00 – 15:00 Lunch*

*15:00 – 17:30 Mine Site Visits*

11:00 – 13:00, ROOM C

*Post-Mining Land Use Issues*

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*14:00 – 15:00 Lunch*

*15:00 – 17:30 Mine Site Visits*





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