Presentations for Keynote Session
Monday 09:00-10:00, Keynote Session, Chairs: Michael Karmis, Virginia Tech, Emmanuel J. Voulgaris, "Milos Conference Center - George Eliopoulos"
Sustainable development at Rio Tinto, P. Chiaro
Strategic drivers of the mining industry: From enclave production to industrial clusters, P. van der Veen, G. McMahon
The Sustainable Development Charter, Greece, E. Vidalis

Presentations for Track A: SUSTAINING RESOURCE AVAILABILITY: policy, research, and applications (technical papers and panel discussions)
Monday 11:30 - 13:00: Definitions and Policies in Resource Use and Supply, Chair: Per Nicolai Martens, RWTH Aachen, Germany
Mineral Policy in the Era of Sustainable Development: Historical Context and Future Content, D. Shields, S. Solar, M. Miller
Thematic Strategy on the Sustainable Use of Natural Resources, W. Bosmans
Determinants of Mineral Supply and Depletion Issues - Case of Fossil Fuels, K. Al-Rawahy

Monday: 14:00 - 15:30: 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

Tuesday 09:00 - 10:30, Promoting Sustainability via Research, Education and Leadership, Chair: Hans-Sierd Pietersen, European Commission
Steeluniversity.org: A New Internet E-Learning Resource on Sustainability, J. Pflieger and R. Hambleton
Integrating Sustainable Development Principles into Educational Process, K. Al-Rawahy
Strategic Leadership Towards Sustainability, J. Paunkovic and N. Paunkovic
Tuesday: 14:00 - 15:30, Ensuring Environmental Sustainability, Chair: Dan Hellige, Caterpillar Global Mining, USA
The ECOMINING Platform Accomplishment for the Promotion of Romanian Research and Innovation Potential, Gy. Deák, St. Deák, D. Georgescu and M. Zlagnean, M.S. Gaman and Z. Seprödi
Assurance Methods: A Welfare Analysis, J. Roufagalas and G. Santopietro
Sustainable Development Approach of the Perama Hill Gold Project, G. Markopoulos

Wednesday 08:30 - 10:30: 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
Coal in the EU Energy Power. Current Challenges and Barriers to Cleaner Coal Power, K. Kavouridis and N. Koukouzas
Evaluation of Nonrenewable Lignite Resources by Means of Sustainability Indicators, N. Speh and I. Veber
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

Wednesday 11:00 - 13:00, Applying Sustainability in Stone and Aggregate Quarrying, Chair: Andrea Blengini, Italy
Measuring Sustainability of Building Aggregates by Means of LCA Tools, V. Badino, G.A. Blengini and K. Zavaglia
Evaluation of the Environmental Performance of the Natural Stone Industry Based on Sustainable Indicators, C. Zografidis, K. Adam, I. Christodoulou and J. Orfanoudakis
Life Cycle Analysis of Dimensional Stones Production, M. Taxiarouchou and I. Kostopoulou
Sustainability of Stone Quarrying in Protected Environment: The Case Study of Adamello Brenta Natural Park (Trento Province, Italy), M. Fornaro and E. Lovera
Crushed Stone Quarry Fines use for Structural Devices Production, R. Candia, R.B. Santos, W.T. Hennies, L. Soares, and I. Guimarães de Almeida
Monday 16:00 - 17:30, Panel Discussion I: Ensuring Sustainable Supply: A Shared Responsibility, Chairs: Deborah Shields, Principal Mineral Economist, USDA Forest Service, USA and Hans-Sierd Pietersen, 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

Presentations for Track B: SUSTAINABILITY INDICATORS: information in support of capacity building (technical papers and panel discussions)
Monday 11:30 - 13:00, Country Perspectives on Mineral Sustainability, Chair: Dirk Van Zyl, University of Nevada, USA
Connections in the Goldmining Sector of Burkina Faso, S. Luning
Tools for Sustainable Management of Gold Resources in Greece, N.D. Arvanitidis
Sustainable Development Indicators for the Greek Industrial Minerals Sector, K. Valta, K. Komnitsas, and M. Grossou-Valta
Monday 14:00 - 15:30, New Sustainability Indicators, Chair: Nikos Arvanitidis, IGME, Greece
Measures of Innovativeness as Indicators of Sustainability, P.M. Godinho
Development of Sustainability Indicators for the Assessment of Alternative Management Systems of Spent, Portable Batteries, K. Adam, N. Voudouris, F. Chalkiopoulou, C. Zografidis, and I. Vassilopoulos
Equipment Reliability: An Indicator for Sustainable Development in Mining, N. Vayenas
Tuesday 09:00 - 10:30, 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
Sustainable Drilling for Oil and Gas: Challenging Drilling Environments Demand New Formulations of Bentonite Based Drilling Fluids, V. Kelessidis
Recovery Silver and Gold by Direct Oxidative Pressure Cyanidation, J.R. Parga, J.L. Valenzuela, H. Moreno and D.L. Cocke

Examples of Mitigating the Post-Mining Impacts of Surface Coal Mining Eastern Coal Fields, USA, H.E. Naumann, H.E. Swisher, E.J. Laporte

Tuesday 14:00 - 15:30, Sustainable Management of Practices, Processes and Wastes, Chair: Carol Russell, U.S. Environmental Protection Agency, USA
Linking IBA's and Project Management - A Case Study, S. Moutsatsos, V. Kazakidis and J. Fowler
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

Wednesday 08:30 - 10:30, 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
Development of Indicator Based Revegetation SDSS in Areas Affected by Mining Activities, X. Zhu, D. Li and K. Komnitsas
Study of Fauna in a Bauxite Mining Area in Central Greece, A. Sfougaris
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. Kostopoulos
Factors Affecting Tree Growth in Bauxite Mining Wastes, K. Tsiouvaras, A. Kyriazopoulos, A. Karagiannidis, P. Rakimbei, N. Barbayiannis and V. Keramidas

Wednesday 11:00 - 13:00, Sustainability Indicators for Mining Projects, Chair: George Markopoulos, Thracean Mines, Greece
Sustainability in Small Scale Mining, P.N. Martens, J.B. Pateiro-Fernández and S. Speer
Benchmarking and Sustainability Indicators for Surface Mining Operations, C. Roumpous, F. Pavloulakis and M. Galetakis
Sustainability Indicators for Mineral Sands Mining in Virginia, USA, W. Lee Daniels, Z.W. Orndorff, M.M. Alley, L.W. Zelazny and C. Teutsch
Technological Innovation as an SDI for the Minerals Industry, Z. Nivolianitou
Opening of Talc Deposit in Gemerská Poloma - Slovakia, J. Engel, M. Cehlar and P. Rybar
Tuesday 11:00 - 12:30, 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

Presentations for Track C: SOCIAL ASPECTS OF SUSTAINABILITY:
meeting shareholder and stakeholder expectations (technical papers and panel discussions)
Monday 11:30 - 13:00, 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
Measuring What Matters: Monitoring the Contribution of a New Mining Project to Community Sustainability, D. Brereton and C. Pattenden
The Office of Surface Mining's "Reclaim the Future!" Initiative, S. Rideout, Jr. and J. Craynon
The Minerals Industry and Sustainable Development. Are We Talking to the Right People - Are We Sending the Right Message?, K. Nielsen

Monday 14:00 - 15:30, Social License to Mine and CSR, Chair: David Brereton, The University of Queensland, Australia
Research Studies on Building Social License within Mineral Exploration, J. Nelsen and M. Scoble
Cumulative Impacts of Coal Mining on a Regional Community, C. Moran, D. Brereton, G. McIlwain and J. McIntosh
The Corporate Responsibility Rating of the Metals & Mining Sector, K. Rüter
Drivers of Reputation in the Australian Mining Industry, J. Tuck

Tuesday 09:00 - 10:30, 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
Giving Back to the African People: Fostering Rural Community Development Through Mineral Development Funds, S.A. Shahnawaz
An Integrated Multi-Criteria Approach to Enhancing the Business Value of Community Investment at Mine Sites, A.M. Esteves

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

**Tuesday 14:00 - 15:30, 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

Evaluation of Resource Management Plans in Nevada Using Seven Questions to Sustainability, D. van Zyl, J. Lohry, and R. Reid


**Wednesday 8:30 - 10:30, Sustainability Reporting, Chair: Kevin Brady, Fivewinds**

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

Balancing the Costs and Benefits of Government and Corporate Sustainability, S. Solar and D. Shields

Third Party Certification as an Emerging Form of Regulation in the Minerals Industry, P. Schiavi and G. Lawrence

**Wednesday 11:00 - 13:00, Post-Mining Land Use Issues, Chair: Kostas Kavouridis, TUC, Greece**

Premature Mine Closures - Causes and Effects, D. Laurence

Alternative Uses of Rehabilitated Mine Land, M. Papasotiriou and G. Petrakis

Towards a Framework for the Sustainable Use of Legacy Mine Land in Queensland, Australia, R. Worrall, D. Neil, D. Brereton and D. Mulligan

Recultivation and Resettlement in the Rhenish Lignite Mining Area - Stakeholder Dialogue as an Important Element of Sustainable Development, M. Eyll-Vetter and P. Eysel

Sustainability in Mineral Industry through the application of Biotechnology, V. Angelatou

**Tuesday 16:00 - 17:30, Panel Discussion III: Stakeholders Expectations, Chairs: Kay O'Regan, Corporate Partnerships Manager, Earthwatch Institute (Europe), United Kingdom and David Brereton, 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

Presentations for Conclusions Session

Wednesday, 13:00-14:00, Conclusions, Chairs: Michael Karmis, Virginia Tech, USA and Per Nicolai Martens, Rheinisch Westfälische Technische Hochschule Aachen, Germany.

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)