

Brief Resume of ZACHARIAS G. AGIOUTANTIS

Education

- 1984 - 1987 Ph.D., Department of Mining and Minerals Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA.
- 1983 - 1984 M.S., Department of Mining and Minerals Engineering, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA.
- 1977 - 1982 M.S. Diploma, Department of Mining and Metallurgical Engineering, National Technical University of Athens (NTUA), Athens, Greece.

Funded Research

- Z. Agioutantis, Principal Investigator, "Computerization of delay and operation parameter logging at the LKP-A surface mines", Public Power Corporation, June 1993 - May 1994, contract no 1993.323/LKPA.
- Z. Agioutantis, Principal Investigator, "Bauxite production in Greece", Project "Diaulos", funded by the General Secretariat of Research and Technology, Greece, 1996-98.
- Z. Agioutantis, Principal Investigator, "An investigation of homogenization techniques in stockpiling of lignite", Project "YPER", funded by the General Secretariat of Research and Technology, Greece, 1998-2001.
- Z. Agioutantis, Principal Investigator, An investigation of Blasting for the foundation of a new Gym Facility in Heraclion, Crete, Oct 2002-June 2003
- Z. Agioutantis, Principal Investigator, Stability Analysis of the outer dump failure at the South Field Mine, Ptolemais, Greece, August 2004 (PPC).
- Z. Agioutantis, Principal Investigator, "Analysis of the final Design of the Plakiotissa Dam, Crete", funded by OADYK (Organization for the development of Western Crete), 2005-2006.
- Z. Agioutantis, Investigator, Risk assessment study at the Somika plant, Katanga province, Kongo, Contrat No 48/Copirep/SE/03/2006, funded by COPIREP, Apr. '06 - Dec. '06.
- Z. Agioutantis, Principal Investigator, "Methodology of geotechnical investigations using a combination of geological, geophysical, drilling and laboratory data", Project "PENED 2003", funded by the General Secretariat of Research and Technology, Greece, 2005-2008.
- Z. Agioutantis, Principal Investigator, "Preliminary design of a water reservoir in Inahorio, Western Crete, 2008.
- Z. Agioutantis, Principal Investigator, "Design of a water reservoir in Zoniana, Central Crete, 2009.
- Partner in Sustainable Aggregate Management, SEE Interreg Project, May 2009, October 2011.
- Z. Agioutantis, Principal Investigator, "Development of on-line data acquisition system for SCADA, South Field Mine, PPC, Greece", Nov 2009-May 2010
- Z. Agioutantis, Principal Investigator, "Development of a geotechnical database for tunnel monitoring, Dec 2009 – Dec 2010
- Z. Agioutantis, Principal Investigator, "Design of support measures for the steep cliffs at Topolia", Western Crete, June 2010-May 2011.

Publications

A. Books

- Agioutantis, Z. "Elements of Geomechanics – Rock Mechanics", Ion Publishing, Athens 2002 (in Greek)
- Agioutantis, Z. and S. Mertikas, "Elements of Technical Writing", Ion Publishing, Athens 2004 (in Greek)
- Agioutantis, Z. "Elements of Drilling and Blasting", Ion Publishing, Athens 2009 (in Greek)

B. Graduate Theses

1. Agioutantis, Z., "A Study of the Ventilation Network at the Straton Mine, Greece", MS Diploma Thesis, Athens, Greece, October, 1982.
2. Agioutantis, Z., "Analysis of Blasting Waves with Particular Emphasis on the Geomechanical Characteristics of the Site", MS Thesis, Blacksburg, VA, June, 1984.
3. Agioutantis, Z., "An Investigation into the Modeling of Ground Deformations Induced by Underground Mining", Ph.D. Dissertation, Blacksburg, VA, September, 1987.

C. Papers

1. Karmis, M., P. Schilizzi and Z. Agioutantis, "The Potential and Application of Sonic Wave Methods in Engineering Rock Characterization", Proceedings, 25th U.S. Symposium on Rock Mechanics Northwestern University, Evanston, Illinois, June 25-27, 1984, pp. 1083-1091.
2. Agioutantis, Z. and M. Karmis, "Analysis of Blasting Waves with Particular Emphasis on the Geomechanical Characteristics of the Site", *Metallurgika Chronika*, No 58, Athens, Greece, August 1984, pp. 24-29, (in Greek).
3. Goodman, G., M. Karmis and Z. Agioutantis, "Optimization of Surface Mining Systems Utilizing Interactive Computer Software", Proceedings, 2nd Conference on the Use of Computers in the Coal Industry, University of Alabama, Tuscaloosa, Alabama, April 15-17, 1985, pp. 288-296.
4. Agioutantis, Z. and E. Topuz, "An Interactive Microcomputer Program for Mine Ventilation Network Analysis", Proceedings, 2nd U.S. Mine Ventilation Symposium, University of Nevada, Reno, Nevada, September 22-25, 1985, pp. 505-514.
5. Karmis, M. and Z. Agioutantis, "An Investigation into the Mechanisms of Roof Caving and Its Prediction Using Numerical and Geomechanics Techniques", Proceedings, 3rd Annual Workshop, Generic Mineral Technology Center on Mine Systems Design and Ground Control, University of Kentucky, Lexington, Kentucky, November 25-26, 1985, pp. 53-74.
6. Agioutantis, Z. and M. Karmis, "Engineering Rock Characterization for the Analysis of Blasting Waves", Proceedings, International Symposium on the Application of Rock Characterization Techniques in Mine Design, AIME Annual Meeting, New Orleans, Louisiana, March 2-6, 1986, pp. 196-206.
7. Agioutantis, Z. and M. Karmis, "A Study of Roof Caving in the Eastern U.S. Coalfields", Proceedings, 5th Conference on Ground Control in Mining, West Virginia University, Morgantown, West Virginia, June 11-13, 1986, pp. 134-146.
8. Agioutantis, Z., "VENTSIM - A Ventilation Simulation Model", Proceedings, 17th Annual Institute on Coal Mining Health, Safety and Research, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, August 26-28, 1986, pp. 85-90.
9. Karmis, M., A. Jarosz, P. Schilizzi and Z. Agioutantis, "Surface Deformation Characteristics above Undermined Areas: Experiences from the Eastern United States", Civil Engineering Transactions, Vol, CE29, no 2, The Institution of Engineers, Australia, April, 1987, pp. 106-114.
10. Karmis, M., A. Jarosz and Z. Agioutantis, "An Integrated Surface Movement Monitoring System for Undermined Areas", Proceedings, VII International Congress on Mine Surveying, Volume X, Leningrad, USSR, June 28-July 2, 1988, pp. 42-48.
11. Agioutantis, Z. and M. Karmis, "Developing Improved Methods of Predicting Surface Displacements due to Underground Mining Through the Integration of Empirical Indices into Numerical Modeling", Mining Science and Geotechnology, 7, 1988, pp. 133-148.
12. Agioutantis, Z., M. Karmis and A. Jarosz, "Prediction of Surface Subsidence and Strain in the Appalachian Coalfields Using Numerical Methods", Proceedings, 7th Conference

- on Ground Control in Mining, West Virginia University, Morgantown, West Virginia, August 3-5, 1988, pp. 95-100.
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 14. Karmis, M., Z. Agioutantis and A. Jarosz, "Recent Developments in the Application of the Influence Function Method for Ground Movement Predictions in the U.S.", *Mining Science and Geotechnology*, 1990, Vol. 10, pp. 233-245.
 15. Agioutantis Z., "Prediction of Surface Deformations due to Underground Mining Using Empirical Procedures", *Mineral Wealth*, Vol 69, Nov-Dec, 1990, pp. 25-34.
 16. Karmis, M., Z. Agioutantis and A. Jarosz, "Subsidence Prediction Techniques in the United States: A State-of-the-Art Review", *Mineral Resources Engineering*, 1990, Vol. 3, No 3, pp. 197-210.
 17. Karmis, M., Z. Agioutantis and A. Jarosz, "Subsidence Prediction in Steep Slope Terrain", *Proceedings, Annual Symposium, Powell River Project*, September, 1990, pp. 43-55.
 18. Karmis, M., Z. Agioutantis and A. Jarosz, "Subsidence Prediction in Steep Slope Terrain - Model Formulation and Application", *Proceedings, Annual Symposium, Powell River Project*, September, 1991, pp. 46-54.
 19. Karmis, M., C. Haycocks and Z. Agioutantis, "The Prediction of Ground Movements Caused by Mining", *Proceedings, 3rd Subsidence Workshop Due to Underground Mining, Morgantown, West Virginia*, June 1-4, 1992, pp. 1-9.
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 21. Exadaktylos, G., Z. Agioutantis and E. Lambrou, "Effect of the fracture process zone in directed crack propagation in borehole blasting", *Proceedings, Eurock '94, Rock Mechanics in Petroleum Engineering*, 1994, Aug. 29 - Sept. 1, pp. 463-470.
 22. Agioutantis, Z. "Automated Downtime Recording and Processing for Continuous Surface Mining Systems", *International Journal of Surface Mining, Reclamation and Environment*, 1994, Vol. 8, 159-162.
 23. Karmis, M., J. Mastoris, and Z. Agioutantis, "Potential of the 'Damage Angle' Concept for Assessing Surface Impacts of Underground Mining", *Transactions, Society for Mining, Metallurgy and Exploration, Inc.*, 1994, Vol. 296, pp. 1883-1886.
 24. Agioutantis, Z. "Using Numerical Procedures for Geomechanical Modeling", *Mineral Wealth*, 1995, *Mineral Wealth*, Vol 96, pp. 23-34 (in Greek).
 25. Agioutantis, Z. and C. Kavouridis, "Determination of Equipment Downtime / Breakdown and Availability Coefficients for Continuous Surface Mining Systems", *Proceedings, Fourth International Symposium on Mine Planning & Equipment Selection*, 1995, Calgary, Alberta, pp. 343-350.
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 27. Kleftakis, S., Z. Agioutantis and D. Sisoura, "Mechanical Properties of Chemically Reinforced Geomaterials", *3rd Hellenic Conference on Geotechnical Engineering*, 20-22 March, 1997, Patras, Vol 2., pp. 65-71.
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31. Agioutantis, Z. and M. Karmis, "Correlation of Subsidence Parameters and Damage Assessment due to Underground Mining", Proceedings, 5th Symposium on Environmental Issues and Waste Management in Energy and Mineral Production, Ankara, Turkey, May 18-20, 1998, pp. 195-201.
32. Agioutantis, Z., S. Mertikas and M. Karmis, "Integration of GPS Monitoring with Ground Movement Prediction Techniques for Subsidence Planning in High Production Longwall Panels", Proceedings, 5th Symposium on Environmental Issues and Waste Management in Energy and Mineral Production, Ankara, Turkey, May 18-20, 1998, pp. 281-286.
33. Agioutantis, Z. and C. Kavouridis, "Technological enhancements in the drilling and blasting procedures for removing hard formations at the South Field Lignite Mine, Ptolemaes, Greece", 7th International Symposium on Mine Planning & Equipment Selection, 1998, Calgary, Alberta.
34. Agioutantis, Z. and M. Karmis, "Assessing Alternative Mining Systems Using Ground Movement Prediction Methods", Proceedings: Advances in GPS Deformation Monitoring, A two-day International Workshop, School of Spatial Sciences, Curtin University of Technology, Western Australia, 24-25 Sept. 1998.
35. Agioutantis, Z. And E. Gavalaki, "Automation and control of rock mechanics laboratory experiments, *Technical Chronicles*, Technical Chamber of Greece, Vol. V, 1998, No. 1-2, pp. 9-18 (in Greek).
36. Agioutantis Z., D. Sisoura and S. Kleftakis, "Laboratory investigation of mechanical and physical properties of sand-resin mixtures", *Mineral Wealth*, vol. 110, 1999, pp. 41-48 (in Greek).
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39. Bekas, A. and Z. Agioutantis, "Evaluation of the geothermal reserves of the Nea Kessani area in the Xanthi prefecture", Proceedings, 6th congress of the institute of solar energy, Volos, 3-5 Nov. 1999, pp. 435-442 (in Greek).
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42. Duvris, D. and Z. Agioutantis, "Air quality improvement of underground bauxite mines through a controlled maintenance program of the diesel-powered equipment", *Transactions*, Society for Mining, Metallurgy and Exploration, Inc., Vol 306, 1999.
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45. Agioutantis, Z. and A. Bekas, "The potential of district heating using geothermal energy. A case study", *Geothermics*, Vol. 29, No. 1, 2000, pp. 51-64.
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47. Agioutantis Z. and G. Karahalios, "Current trends in production and trade of industrial minerals in the south eastern european region", SME Preprint No 00-97, *Proceedings, SME Annual Meeting*, Salt Lake City, Utah, February 28, 2000.
48. Agioutantis Z. and D. Duvris, "Health and safety issues in the mining and quarrying industry", SME Preprint No 00-98, *Proceedings, SME Annual Meeting*, Salt Lake City, Utah, February 28, 2000.
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53. Galetakis, M., and Z. Agioutantis, "The influence of strategic development options on the long term quality variation of (mined) lignite - the case of the South Field Mine in Ptolemais, Greece", *Proceedings, 9th International Symposium on Mine Planning & Equipment Selection*, Athens, Greece - November 6-9, 2000.
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57. Karahalios G. and Z. Agioutantis, "Comparative study of the production of mineral resources in S.E. Europe", *3rd National Congress of Mineral Wealth*, Athens, 22-24 Nov. 2000 (in Greek).
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61. Schafrik, S., M. Karmis and Z. Agioutantis, "A Novel, Web-Based, Continuous Mining Simulator", Proceedings, SME Annual Meeting, Denver Colorado, February 2001.
62. Agioutantis, Z., M. Karmis, C. Stiakakis and N. Stiakakis, "An Interactive Roof Bolting Selection and Performance System", 4th International Symposium for Roofbolting in Mining, 6-7 June 2001, Aachen, Germany.
63. Agioutantis, Z., S. Bozinis, G. Panagiotou and C. Kavouridis, "Evaluation and Analysis of blasting procedures for removing hard formations at the South Field Lignite Mine, Ptolemais, Greece", IMCET 2001, 17th International Mining Congress and Exhibition of Turkey, 19-22 June 2001, Ankara, Turkey.
64. Pavlourdakis, F. and Z. Agioutantis, "Development of a software tool for the prediction of the coal blending efficiency in longitudinal stockpiles", IMCET 2001, 17th International Mining Congress and Exhibition of Turkey, 19-22 June 2001, Ankara, Turkey.
65. Stiakakis, C., Z. Agioutantis and G. Paschalis, "Rock Discontinuities in Tunnel Design: Numerical simulation of the effects of clay-filled and open joints", 6th National Congress on Mechanics, Thessaloniki, Greece, 19-21 July 2001.
66. Newman, D., Z. Agioutantis and M. Karmis, "SDPS for Windows: An Integrated Approach to Ground Deformation Prediction", 20th Conference on Ground Control in Mining, Morgantown, West Virginia, August 7-9 2001, pp. 157-162.
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