

Short CV – Prof. K. Komnitsas

1. GENERAL INFORMATION

DATE	September 2012
NAME	Konstantinos Komnitsas
OCCUPATION	Dr. Metallurgical Engineer (PhD in Hydrometallurgy) Professor, Dep. Mineral Resources Engineering Technical University Crete, Greece
HOME ADDRESS	161, March 25 th str, PO Box 1014 73142 Kounoupidiana Chania, Crete, Greece tel: +30-28210-49098
WORK ADDRESS	Technical University Crete Dep. Mineral Resources Engineering 73100 Akrotiri Chania, Crete, Greece tel: +30-28210-37686 fax: +30-28210-69554 Email: komni@mred.tuc.gr Webpage: http://www.mred.tuc.gr/p013215_UK.htm
NATIONALITY	Greek
DATE – BIRTH PLACE	March 18, 1961, Larissa, Greece
MARITAL STATUS	Married, 2 children
LANGUAGES	Greek (Mother tongue) English (Fluent) German (Good)
MEMBERSHIP	<ol style="list-style-type: none">1. Technical Chamber of Greece2. Greek Society of Mining and Metallurgical Engineers3. Greek Society of Mineral Wealth Scientists4. "Alexander S. Onassis" Foundation Scholars5. National Technical University (NTUA) Graduates Union6. ASTM Member (Environmental Forensics)7. EWRA Member (European Water Resources Association)

2. EDUCATION

1988-1990:	Post Doctoral Research , University of Wales, Cardiff School of Engineering, Division of Materials and Minerals, U.K, with an EC grant
1984-1988:	PhD , Laboratory of Metallurgy, School of Mining and Metallurgical Engineering, National Technical University of Athens (NTUA)
1978-1983:	Diploma in Engineering School of Mining and Metallurgical Engineering, National Technical University of Athens
1973-1978:	Secondary School , Agia, Larissa, Greece

3. ACADEMIC CAREER DEVELOPMENT

- 10 Apr. '08 **Technical University Crete**, Dep. Mineral Resources Engineering, Professor
- 01 Oct. '07 - **Greek Open University**, Professor, Postgraduate Program "Waste Management"
- 12 Feb. '03 – 10 Apr. '08 **Technical University Crete**, Dep. Mineral Resources Engineering, Associate Professor
- July '01 – 11 Feb. '03: **NTUA**, School of Mining and Metallurgical Engineering, Senior Research Scientist
- July - Dec. '90: **Research Associate**, University of Wales, Cardiff School of Engineering, Division of Materials and Minerals, U.K
- Dec.'88 - May '90: **Post Doctoral Research Fellow**, University of Wales, Cardiff School of Engineering, Division of Materials and Minerals, U.K (European Commission Grant)

4. ACTIVITIES

Distinctions

1. The paper Komnitsas, K., Zaharaki D. (2007). Geopolymerisation. A review and prospects for the minerals industry, *Minerals Engineering*, 20, 1261-77, <http://dx.doi.org/10.1016/j.mineng.2007.07.011>, the period 2009-2012 was ranked in the first three "most downloaded" papers published in *Minerals Engineering*, in 2011 ranked 3rd in citations while in 2012 ranked 1st in citations for papers published in *Minerals Engineering* the period 2007-2012.
2. Nov. 2009. The Laboratory of "Management of Mining/Metallurgical Wastes and Rehabilitation of Contaminated Soils" was selected with fifteen other European laboratories by the European standardisation committ e CEN in the line of inter-laboratory evaluation, for the determination of neutralization potential of mining wastes as part of the implementation of the Directive on the management of wastes from the extractive industries, based on the validation of preliminary standard prEN 15875 (<http://www.cen.eu/cenorm/homepage.htm>).
3. Sep. 2003: Alexander S. Onassis Foundation. Grant for implementation of reaseach project after a competitive call
4. 3 May 2002: Abdi Ipekci prize as Editor-in-Chief of the *European Journal of Mineral Processing and Environmental Protection*
5. 01/12/88 - 31/05/90: European Commission (Directorate Biology - Division Biotechnology). Research grant. Research was carried out at Cardiff School of Engineering
6. 1984-1986: "Alexander S. Onassis Foundation", Grant for PhD studies

Editor – Member of journal Editorial Boards

1. Member of the Editorial Board of the journal *Environmental Forensics*, (since 1/2005), <http://www.environmentalforensics.org/journal.htm>
2. Member of the Editorial Board of the journal *Minerals Engineering*, <http://www.elsevier.nl/locate/issn/08926875> (since 04/2000)

Evaluator of Research Proposals

1. July 2012. 3 proposals for National Centre of Research and Technology of Kazakhstan (remote)
2. July 2012. Science Foundation of Georgia (remote)
3. July 2012. Bilateral proposals Greece-Serbia (remote)
4. July 2012. 5 Bilateral proposals Greece-Slovak Republic (remote)
5. 11-15 June 2012. European Commission, Stage 2 proposal evaluation, call "NMP.2012.1.2-1 Nanotechnology solutions for in-situ soil and groundwater remediation", Appointment letter CT-EX2002B000337-116
6. May 2012. 1 proposal for Swiss National Science Foundation (remote)
7. 11 Feb. 2012. Basic research proposals, National Technical University of Athens
8. 1-4 Feb. 2012. Greek Ministry of Education, GSRT, Support of new SMEs in RTD activities
9. 24/11-8/12/11. European Commission, 10 proposals, stage 1 proposal evaluation, "NMP.2012.1.2-1 Nanotechnology solutions for in-situ soil and groundwater remediation", Appointment letter CT-EX2002B000337-115 (remote)
10. Sep. 2011. Science Foundation of Georgia (remote)
11. Sep. 2011. European Commission, Appointment letters CT-EX2002B000337-113 and 114

12. July 2011. Ministry of Education and Science, Russian Federation, proposals for reintegration of Russian scientists
13. 18-20 July 2011. Greek Ministry of Education, GSRT, 36 proposals for supporting research and innovation in SMEs
14. July 2011. Research proposals in materials, Czech Science Foundation (remote)
15. Nov. 2010. Research proposals, National Science Foundation, Arlington, VA, USA (remote)
16. Oct. 2010. Research proposals, Ministry of Education and Science, Russian Federation (remote)
17. Oct. 2010. Research proposals, Ministry of Science and Technological Development, Serbia (remote)
18. 25 Sep. 2010. Basic research proposals, National Technical University Athens
19. 1-3 Sep. 2010. Innovation proposals (32), General Secretariat of Research and Technology, Athens
20. July 2010. Basic research proposal, Czech Science Foundation (remote)
21. 23 Apr. 2010. Heraklitus proposals, Greek Ministry of Education, Athens
22. Mar. 2010. Materials research proposals (1) for the Cyprus Research Promotion Foundation (remote)
23. Mar. 2010. Cooperation proposals (3), General Secretariat of Research and Technology, Athens
24. 3 Feb. 2010. Student training proposals (3), Greek Ministry of Education, Athens
25. Nov. 2009. Environmental research proposals (2) for the Cyprus Research Promotion Foundation
26. 21-23 Sep. 2009 and 5 Jan. 2010. 31 Heraklitus proposals, Greek Ministry of Education, Athens
27. 8 May. 2009. Independent Expert of an ongoing FP6 IP, NMP3-CT-2005-011783 (Appointment Letter CT-EX2002B000337-111)
28. 3 Mar. 2009. Independent Expert of an ongoing FP6 IP, NMP3-CT-2004-500253 (Appointment Letter CT-EX2002B000337-110)
29. 30 June 2008. Environmental research proposals (2) for the Cyprus Research Promotion Foundation, Athens
30. 7 June 2008. Basic research proposals, National Technical University Athens, Greece
31. 6 Mar. 2008. Independent expert of an ongoing FP6 IP, NMP3-CT-2005-011783 (Appointment Letter CT-EX2002B000337-109)
32. 13 Sep. 2007. Environmental research proposals for the Cyprus Research Promotion Foundation, Athens
33. 7 July 2007. Basic research proposals, National Technical University Athens, Greece
34. Apr. 2007. Remote evaluation of SEE ERA- NET proposals through Extranet of European Commission
35. 9 Dec. 2006. Basic research proposals, National Technical University Athens, Greece
36. 28-29 Nov. 2006. Independent expert for a FP6 NoE project on new materials, NMP3-502243, Brussels, (Appointment Letter CT-EX2002B000337-108)
37. 10-13 Oct. 2006. Reviewer of completed INCO projects, Brussels.
38. 11 Sep. and 2 Oct. 2006. Environmental research proposals for the Cyprus Research Promotion Foundation
39. June-July 2006. INTAS research proposals (through EC Extranet)
40. 10-14 Apr. 2006. Proposals between Greek and Non-EU organizations, General Secretariat of Research and Technology, Greece
41. 3-20 Mar. 2006. Remote evaluation of European Commission Leonardo da Vinci proposals
42. 17 Nov. 2005. Independent expert for a FP6 NoE project on new materials, Brussels
43. 13-14 Oct. 2005. Proposals for DG International Cooperation (Call for Proposals "FP6-2004-INCO-MPC-3"), Brussels
44. 10-13 Oct. 2005. Proposals for DG Research (Call for Proposals "FP6-2004-NMP-TI-4"), Brussels
45. Aug. 2005. INTAS research proposals (through EC Extranet)
46. 19 July 2005. Environmental research proposals for the Cyprus Research Promotion Foundation, Athens, Greece
47. Apr.- May 2005. Proposals for the Regional Network of Technology Supply – RENTS of Crete, Tech. University Crete
48. 6-8 Apr. 2005. Reviewer of completed INCO proposals (Appointment Letter CT-EX2002B000337-102), Brussels
49. 5 Apr. 2005. Environmental research proposals for the Cyprus Research Promotion Foundation, Athens, Greece
50. Feb. 2005. Innovation proposals (CRINNO program), Tech. University Crete

51. 14-16 Dec. 2004. Educational proposals, Greek Ministry of Education
52. 22 Nov. 2004. Environmental research proposals for the Cyprus Research Promotion Foundation, Athens, Greece
53. Sep.-Oct. 2004. INTAS research proposals and innovation grants (through EC Extranet)
54. 15 Sep. 2004. Environmental Greek-French bilateral proposals (GSRT)
55. 13 Sep. 2004. Environmental Greek-Slovenia bilateral proposals (GSRT)
56. 29 Mar. 2004. 3 Environmental proposals for the Cyprus Research Promotion Foundation, Athens, Greece.
57. 22 Mar. 2004. 10 materials-environment Greece-Serbia and Montenegro bilateral co-operation proposals, General Secretariat of Research and Technology, Athens, Greece.
58. 14-18 Mar. 2004. Leonardo da Vinci proposals (CONTRACT NUMBER –2004-99999-27), Brussels.
59. 3 Mar. 2004. 6 environmental Greece-Hungary bilateral co-operation proposals, General Secretariat of Research and Technology, Athens.
60. Sep. 2003. INTAS proposal (on-line evaluation through INTAS extranet)
61. 10 – 13 June 2003. FP6 WBC STREPs (Appointment Letter CT-EX2002B000337-101), Brussels.
62. June 2003. 16 research proposals, Greek Ministry of Education, Athens, Greece.
63. 31 Mar. – 5 Apr. 2003. FP6 NMP NoEs (stage 1), Appointment Letter FP6-2002-NPM-1-00042, Brussels.
64. 13 May 2002: 4 environmental research proposals for the Cyprus Research Promotion Foundation, Athens, Greece.
65. May 2002. Greek proposals for post-graduate research, Greek Ministry of Education, Greece.
66. 2-6 July 2001: FP5 proposals (Contract Letter IEA2-CT2001-0013), Brussels.
67. 6 Mar. 2001. 4 environmental research proposals for the Cyprus Research Promotion Foundation, Athens, Greece.
68. 17-19 May 2000: FP5 proposals (Contract Letter IEA2-CT2000-00003), Brussels.
69. 4-15 Oct. 1999: FP5 proposals (Contract Letter ERBIEA2CT995033), Brussels.
70. Mar. 1994. Greek research proposals, Greek Secretariat of Research and Technology.

Conference co-chair

1. ILR-SUD 2010 – Co-organiser, 2nd International Conference on Indicators for Land Rehabilitation and Sustainable Development, 18-19 Sep. 2010, Beijing, China, <http://www.iccta.cn/ilrsud/en/index.html>
2. Co-chair "3rd International Conference on Advances in Mineral Resources Management and Environmental Geotechnology", 7-9 Sep. 2009, Athens, Greece, <http://heliotopos.conferences.gr/amireq2009>
3. ILR-SUD 2008 – Co-organiser, 1st International Conference on Indicators for Land Rehabilitation and Sustainable Development, 20-21 Oct. 2008, Beijing, China, <http://www.ilr-sud.cn/cicta/ilr-sud/en/index.html>
4. Co-chair "2nd International Conference on Advances in Mineral Resources Management and Environmental Geotechnology", 25-27 Sep. 2006, Chania, Crete, Greece, <http://heliotopos.conferences.gr/amireq2006>
5. Co-chair Geoenvironmental and Geotechnics Workshop, 12-14 Sep. 2005, Milos, Greece, <http://milos.conferences.gr/index.php?id=1751>
6. Co-chair of the "1st International Conference on Advances in Mineral Resources Management and Environmental Geotechnology", 7-9 June 2004, Chania, Crete, Greece, <http://heliotopos.conferences.gr/amireq2004>

Member in conference scientific/technical/organizing committees

1. 13th International Conference of the Geological Society of Greece, 5-8 Sept. 2013, Chania, Greece, <http://www.eqe13.gr/>
2. Symposium «Olive Oil Mill Wastes and Environmental Protection», 16-18 Oct. 2012, Chania, <http://www.prosodol.gr/?q=node/449>
3. 3rd International Symposium on Green Chemistry for Environment and Health, Skiathos, 3-5 Oct. 2012, <http://www.greenchem3.prd.uth.gr/>
4. 2nd International Symposium on Green Chemistry for Environment and Health, Mykonos, 27-29 Sep. 2010, <http://www.greenchem2.prd.uth.gr/organization.html>
5. INGESUB 2008. Member of the Scientific Committee, International Conference on Subsoil Research, Oviedo, Spain, 10-11 Nov. 2008.
6. Scientific Committee of International Workshop on Geoenvironment and Geotechnics, 8-9 Sep. 2008, Milos, Greece, <http://milos.conferences.gr/geoenv2008>

7. Scientific Committee of 3rd International Conference on Sustainable Development Indicators in the Mineral Industries (SDIMI), June 17-20, 2007, Milos, <http://milos.conferences.gr/sdimi2007>
8. Scientific Committee of *TMS Fall 2006 Extraction & Processing Meeting: Sohn International Symposium*, 27-31 Aug. 2006, San Diego, California. <http://www.tms.org/Meetings/Specialty/FallExt2006/FallExt2006-organizingcommittee.html>
9. Scientific Committee of *Mine Water Association Congress 2005 (IMWA '05)*, 5-8 Sep. 2005, Oviedo, Spain, <http://www.imwa.info/>
10. Scientific Committee of 5th Conference "Integrated Management of Water Resources" organized by the Greek committee for management of water resources, Xanthi, Greece, 6-9 April 2005, <http://www.waterinfo.gr/>
11. Organizing Committee of 15th International Biohydrometallurgy Symposium, IBS, 14-19 Sep. 2003, Athens, <http://www.nereusgroup.gr/congress/ibs2003/>.
12. Scientific committee of *International Workshop Sustainable Development Indicators in the Mineral Industries (SDIMI)*, 21-23 May 2003, Milos island, Greece, <http://www.heliotopos.net/conf/sdimi2003/index.htm>.

National Representative activities

1. Feb. 2007. Deputy national representative at the TAC committee for the Directive 2006/21/EC
2. Oct. 2006- Jan. 2009. National representative FP7 (2006-2013) for International Cooperation
3. 22-29 Nov. 2003. Member of Greek delegation in an official visit to China for strengthening Sino-Greek scientific cooperation (2 presentations in Beijing and Nanjing).
4. Nov. 2002 – May 2004. National representative of the horizontal configuration of the programme committee of the FP6 programme "Integrating and Strengthening the European Research area" (appr. 8 meetings per year).
5. Jan. 2002 – Mar. 2003. Participation as national expert in the FP6 committee for the establishment of rules of participation (model contract) of legal entities (8 meetings).

5. TUTORIALS

Post-graduate courses

Technical University Crete (TUC), Dep. Mineral Resources Eng.

1. Sustainable development in the mining and metallurgical industry (2003-today)
2. Solid waste, effluents and soil decontamination and remediation technologies (2003-today)

Greek Open University

3. Hazardous Waste Management (2007- today)

National Technical University of Athens (NTUA), School of Mining and Metallurgical Eng.

4. Soil decontamination technologies (1998-2002)
5. Refractory materials (1986-1988)

Graduate courses

Technical University Crete (TUC), Dep. Mineral Resources Eng.

1. Pollution prevention and rehabilitation technologies (2000-today)
2. Metallurgical processes (2004-today)
3. Applied geostatistics (2001-2002)

National Technical University of Athens (NTUA), School of Mining and Metallurgical Eng.

4. Off gases treatment technologies (2000-2002)
5. Metallurgy of non-ferrous metals (2000-2001)
6. Iron and Steel Metallurgy (2000-2002)

6. SCIENTIFIC PUBLICATIONS

Books – Chapter in Books

1. Kavvadias, V., Doula, M., **Komnitsas, K.** (2011). Long term effects of olive mill wastes disposal on soil fertility and productivity. In: *Hazardous Materials: Types, Risks and Control* (Editors: Satinder Kaor Brar), 2011 Nova Science Publishers, Inc., ISBN: 978-1-61324-425-8.
2. Modis, K., **Komnitsas, K.** (2011). How Many Data Are Enough? Estimation of an Optimum Sampling Density in Mining and Environmental Applications, in *Mine Drainage and Related Problems* (ed. B.C. Robinson), Nova Publishers. ISBN: 978-1-61668-643-7
3. **Komnitsas, K.**, Zaharaki, D. (2009). Utilisation of low-calcium slags to improve the strength and durability of geopolymers (Chapter 16), in *Geopolymers: structure, processing, properties and industrial applications*, (eds. J. L. Provis & J.S.J. van Deventer), Woodhead Publishing Ltd, UK, ISBN 978 1 84569 449 4.
4. **Komnitsas, K.** Management of radioactive wastes (Chapter 5), Rehabilitation of soils contaminated from disposal of hazardous wastes (Chapter 6), Prevention of contamination at waste disposal sites (Chapter 7), Sampling and characterization of hazardous wastes (Chapter 8), Selection and cost estimation of integrated waste management technologies (Chapter 9), pp. 93-321, in *Hazardous Wastes*, Vol. 2, Greek Open University, 2003, ISBN: 960-538-372-1.
5. **Komnitsas, K.** Liquid effluents of the mining-metallurgical industry (Chapter 11, p.p. 177-234), in *Industrial Liquid Effluents*, vol. 2, Greek Open University, 2003, ISBN: 960-538-370-5.
6. **Komnitsas, K.** Demolition wastes (Chapter 8), Solid mining and metallurgical wastes (Chapter 9), pp. 181-214, in *Municipal and other non hazardous wastes*, vol. 1, Greek Open University, 2003, ISBN: 960-538-371-3.
7. **Komnitsas, K.**, N. Belavilas, I. Polyzos. Clean up and remediation of sites affected by mining and processing activities, Chapter 1, pp. 15-64, in *Bioclimatic Planning of Cities and Buildings*, Vol. 2, Greek Open University, 2001, ISBN: 960-538-383-7.

Diploma Thesis

- **Komnitsas, K.:** Kinetic study of sulphuric acid laterite leaching in ambient conditions, NTUA, 1983 (in Greek).

PhD thesis

- **Komnitsas, K.:** Sulphuric acid pressure leaching of Greek laterites. Process simulation, NTUA, 1988 (in Greek-English summary).

Refereed publications in journals

1. Kontopoulos A., **K. Komnitsas.** Sulphuric acid pressure leaching of Greek laterites, *Mineral Wealth*, 45(1986), 81-90 (in Greek, English summary).
2. Kontopoulos A., N. Kouloubi, **K. Komnitsas.** Bauxite-alumina-aluminium industry. Greek and international perspectives, *Mineral Wealth*, 50, 1987, 1-18 (in Greek, English summary).
3. Kontopoulos, A., **K. Komnitsas.** Perspectives of the mixed sulphides industry, *Mineral Wealth*, 52, 1988, 23-35, (in Greek, English summary).
4. **Komnitsas K.**, F.D. Pooley. Mineralogical characteristics and treatment of refractory gold ores. *Minerals Engineering*, 2(4), 1989, 449-457, [http://dx.doi.org/10.1016/0892-6875\(89\)90080-0](http://dx.doi.org/10.1016/0892-6875(89)90080-0)
5. **Komnitsas K.**, F.D.Pooley. Bacterial oxidation of a refractory gold sulphide concentrate from Olympias, Greece, *Minerals Engineering*, 3(3/4), 1990, 295-306, [http://dx.doi.org/10.1016/0892-6875\(90\)90125-U](http://dx.doi.org/10.1016/0892-6875(90)90125-U)
6. **Komnitsas K.**, F.D.Pooley. Optimization of the bacterial oxidation of an arsenical gold sulphide concentrate from Olympias, Greece. *Minerals Engineering*, 4(12), 1991, 1297-1303, [http://dx.doi.org/10.1016/0892-6875\(91\)90173-S](http://dx.doi.org/10.1016/0892-6875(91)90173-S)
7. **Komnitsas K.**, Constructed wetlands: A general overview, *Mineral Wealth*, 92, 1994, 39-54.
8. **Komnitsas K.**, Amenability of overburden and tailings to biooxidation, *Mineral Wealth*, 93, 1994, 37-44.
9. **Komnitsas K.**, Aspects on bacterial leaching technology, *Mineral Wealth*, 96, 1995, 45-50.
10. Kontopoulos A., **K. Komnitsas**, A. Xenidis, N. Papassiopi. Environmental characterisation of the sulphidic tailings in Lavrion, *Minerals Engineering*, 8(10), 1995, 1209-1219, , [http://dx.doi.org/10.1016/0892-6875\(95\)00085-5](http://dx.doi.org/10.1016/0892-6875(95)00085-5)
11. **Komnitsas K.**, A. Xenidis, K. Adam. Oxidation of pyrite and arsenopyrite in sulphidic spoils in Lavrion, *Minerals Engineering*, 8(12), 1995, 1443-1454, [http://dx.doi.org/10.1016/0892-6875\(95\)00109-3](http://dx.doi.org/10.1016/0892-6875(95)00109-3)

12. **Komnitsas K.**, A. Kontopoulos, I. Lazar, M. Cambridge. Risk assessment and proposed remedial actions in coastal tailings disposal sites in Romania, *Minerals Engineering*, 11(12), 1998, 1179-1190, [http://dx.doi.org/10.1016/S0892-6875\(98\)00104-6](http://dx.doi.org/10.1016/S0892-6875(98)00104-6)
13. **Komnitsas K.**, I. Lazar, I.G. Petrisor. Application of a vegetative cover on phosphogypsum stacks, *Minerals Engineering*, 12 (2), 1999, 175-185, [http://dx.doi.org/10.1016/S0892-6875\(98\)00130-7](http://dx.doi.org/10.1016/S0892-6875(98)00130-7)
14. Groudev S., S.G. Batkova, **K. Komnitsas**. Treatment of waters polluted with radioactive elements and heavy metals by means of a laboratory passive system, *Minerals Engineering*, 12 (3), 1999, 261-270, [http://dx.doi.org/10.1016/S0892-6875\(99\)00004-7](http://dx.doi.org/10.1016/S0892-6875(99)00004-7)
15. Hallett C., **K. Komnitsas**, S. Groudev. Mining wastes at Vromos Bay, *Mining Environmental Management*, 7(3), 1999, 10-12.
16. Paspaliaris I., N. Papassiopi, A. Xenidis, **K. Komnitsas**. Remediation of land contaminated by mining and metallurgical activities in Lavrion area, *Mining and Metallurgical Annals*, v. 1-2, 1999, 31-54.
17. Peppas A., **K. Komnitsas**, I. Chalikia. Use of organic covers for acid mine drainage control, *Minerals Engineering*, 13 (5), 2000, 563-574, [http://dx.doi.org/10.1016/S0892-6875\(00\)00036-4](http://dx.doi.org/10.1016/S0892-6875(00)00036-4)
18. Tabouris S., D. Kolitsa, A. Xenidis, **K. Komnitsas**. Environmental impact assessment of sulphidic spoils in Lavrion, *Mineral Wealth*, 114 (2000), 19-32 (in Greek, English summary).
19. **Komnitsas K.** Methodology for the assessment of pollutants risk at industrial and hazardous waste disposal sites (in Greek), *Mining and Metallurgical Annals*, v. 10 (1), 2000, (in Greek, English summary).
20. **Komnitsas K.**, A. Xenidis, S. Tabouris. Composite cover for the prevention of acid mine drainage, *Mining Environmental Management*, v.8 (6), 2000, 14-17.
21. **Komnitsas K.**, A. Peppas, I. Chalikia. Prediction of the life expectancy of organic covers, *Minerals Engineering*, 13(14-15), 2000, 1589-1601, [http://dx.doi.org/10.1016/S0892-6875\(00\)00142-4](http://dx.doi.org/10.1016/S0892-6875(00)00142-4)
22. Groudev S.N., I.I. Spasova, P.S. Georgiev, **K. Komnitsas**. Bioremediation of soil contaminated with radioactive elements, *Hydrometallurgy*, 59, 2001, 311-318.
23. **Komnitsas K.**, I. Petrisor. Environmental Characterization and risk assessment of Somova waste dumps, *Mineral Wealth*, 118, 2001, 53-60.
24. **Komnitsas K.**, I. Paspaliaris, M. Zilberchmidt, S. Groudev. Environmental impacts at coal waste disposal sites. Efficiency of desulphurization technologies, *Global Nest*, 3(2), 2001, 135-142.
25. Petrisor I., **K. Komnitsas**, I. Lazar, A. Voicu, S. Dobrota, M. Stefanescu. Biosorption of heavy metals from leachates generated at mine waste disposal sites, *The Journal of European Mineral Processing and Environmental Protection*, 2(3), 2002, 158-167.
26. Xenidis, A., N. Papassiopi, **K. Komnitsas**. Carbonate rich mine tailings in Lavrion: Risk assessment and proposed rehabilitation schemes, *Advances in Environmental Research*, vol. 7 (2), 2003, 207-222, [http://dx.doi.org/10.1016/S1093-0191\(02\)00017-5](http://dx.doi.org/10.1016/S1093-0191(02)00017-5)
27. **Komnitsas K.**, A. Xenidis. Acid Mine Drainage – Generation, Impacts and Control in mixed sulphide mines and disposal sites, *Tech. Chron. Sci. J*, v. 1/2, 2001, 19-36 (in Greek, English summary).
28. **Komnitsas K.**, D. Kolitsa, I. Paspaliaris, Use of reactive materials for the clean up of acidic leachates generated from mine waste dumps, *Tech. Chron. Sci. J*, 1/2, 2002, 17-25.
29. Zilberchmidt M., M. Shpirt, **K. Komnitsas**, I. Paspaliaris. Thermal processing of sulfur containing coal wastes, accepted for presentation, *Minerals Engineering*, 17, 2004, 175-182, <http://dx.doi.org/10.1016/j.mineng.2003.10.026>
30. **Komnitsas K.**, G. Bartzas, I. Paspaliaris. Efficiency of limestone and red mud barriers: laboratory column studies, *Minerals Engineering*, 17, 2004, 183-194, <http://dx.doi.org/10.1016/j.mineng.2003.11.006>
31. **Komnitsas K.**, G. Bartzas, I. Paspaliaris, Treatment of inorganic contaminants using fly ash barriers: laboratory column studies, *Global Nest*, 2004, 1, 81-89.
32. Petrisor I., S. Dobrota, **K. Komnitsas**, I. Lazar, C. M. Kuperberg, M. Serban. Artificial inoculation - Perspectives in tailings phytostabilization, *International Journal of Phytoremediation*, 6(1), 2004, 1-15, <http://dx.doi.org/10.1080/16226510490439918>
33. Bartzas, G., **K. Komnitsas**, I. Paspaliaris (2006). Laboratory evaluation of Fe⁰ barriers to treat acidic leachates, *Minerals Engineering*, 19(5), 505-514, <http://dx.doi.org/10.1016/j.mineng.2005.09.032>
34. **Komnitsas K.**, G. Bartzas, I. Paspaliaris (2006). Inorganic contaminant fate assessment in zero-valent iron treatment walls, *Environmental Forensics*, 7, 207-217, <http://dx.doi.org/10.1080/15275920600840479>
35. **Komnitsas K.**, G. Bartzas, I. Paspaliaris (2006). Modeling of reaction front progress in fly ash permeable reactive barriers, *Environmental Forensics*, 7, 219-231, <http://dx.doi.org/10.1080/15275920600840552>
36. **Komnitsas K.**, K. Modis (2006). Soil risk assessment of As and Zn contamination in a coal mining region using geostatistics, *Science of the Total Environment*, 371, 190-196, <http://dx.doi.org/10.1016/j.scitotenv.2006.08.047>

37. **Komnitsas, K.**, D. Zaharaki, V. Perdikatsis (2007). Geopolymerisation of low calcium ferronickel slags, Geopolymerisation of low calcium ferronickel slags, *Journal of Materials Science*, 42(9), Special Section: Advances in Geopolymer Science & Technology (Guest Editors: Grant C. Lukey, Angel Palomo, John L. Provis, Jannie S. J. van Deventer), 3073-3082, <http://dx.doi.org/10.1007/s10853-006-0529-2>
38. **Komnitsas, K.**, G. Bartzas, K. Fytas, I. Paspaliaris (2007). Long-term efficiency and kinetic evaluation of ZVI barriers during clean up of copper containing solutions, *Minerals Engineering*, 20, 1200-1209, <http://dx.doi.org/10.1016/j.mineng.2007.05.002>
39. Triantafyllidis St., Skarpelis N., **Komnitsas K.** (2007). Environmental characterisation of the Kirki (NE Greece) flotation tailings, *Environmental Forensics*, 8(4), 351-359, <http://dx.doi.org/10.1080/15275920701729688>
40. **Komnitsas, K.**, Zaharaki D. (2007). Geopolymerisation. A review, *Minerals Engineering*, 20, 1261-1277, <http://dx.doi.org/10.1016/j.mineng.2007.07.011>
41. Modis, K., **K. Komnitsas** (2007). Optimum sampling density for the prediction of acid mine drainage in an underground sulphide mine, *Mine Water and the Environment*, 26(4), 237-242, [DOI 10.1007/s10230-007-0014-4](http://dx.doi.org/10.1007/s10230-007-0014-4)
42. Modis, K., Papantonopoulos, G., **Komnitsas K.**, Papaodysseus, K (2008). Mapping optimization based on sampling size in earth related and environmental phenomena, *Stochastic Environmental Research and Risk Assessment*, 22, 83-93, <http://dx.doi.org/10.1007/s00477-006-0096-8>
43. Modis, K., **K. Komnitsas** (2008). Dimensionality of heavy metal distribution in waste disposal sites using non linear dynamics, *Journal of Hazardous Materials*, 156, 285-291, <http://dx.doi.org/10.1016/j.jhazmat.2007.12.063>
44. **Komnitsas, K.**, Zaharaki, D., V. Perdikatsis, (2009). Effect of synthesis parameters on the compressive strength of low-calcium ferronickel slag inorganic polymers, *Journal of Hazardous Materials*, 161:760-768, <http://dx.doi.org/10.1016/j.jhazmat.2008.04.055>
45. **Komnitsas, K.**, K. Modis (2009). Geostatistical risk assessment at waste disposal sites in the presence of hot spots, *Journal of Hazardous Materials*, 164(2-3): 1185-1190, <http://dx.doi.org/10.1016/j.jhazmat.2008.09.027>
46. Zaharaki, D., **Komnitsas K.** (2009). Effect of additives on the compressive strength of slag-based inorganic polymers, *Global Nest Journal*, 11(2):137-146.
47. **Komnitsas, K.**, K. Manousaki, D. Zaharaki (2009). Assessment of reactivity of sulphidic tailings and river sludges, *Geochemistry: Exploration, Environment, Analysis*, 9(4):313-318, <http://dx.doi.org/10.1144/1467-7873/09-198>
48. Guo, X., **Komnitsas, K.**, Li, D. (2010). Correlation between herbaceous species and environmental variables at the abandoned Haizhou coal mining site, *Environmental Forensics*, 11(1-2):146-153, <http://dx.doi.org/10.1080/15275920903558877>
49. Zaharaki, D., **K. Komnitsas**, V. Perdikatsis (2010). Use of analytical techniques for identification of inorganic polymer gel composition, *Journal of Materials Science*, 45(10):2715-2724, <http://dx.doi.org/10.1007/s10853-010-4257-2>
50. Guo, X., Li, D., **Komnitsas, K.**, (2010). Spatial heterogeneity of soil nutrients in an abandoned coal mine and waste disposal site of China, *Intelligent Automation and Soft Computing*, 16(6): 953-961.
51. **Komnitsas, K.**, Guo, X., Li, D., (2010). Mapping of soil nutrients in an abandoned Chinese coal mine and waste disposal site, *Minerals Engineering*, 23:627-635, <http://dx.doi.org/10.1016/j.mineng.2010.02.009>
52. Kavvadias, V., M.K. Doula, **K. Komnitsas**, N. Liakopoulou (2010). Disposal of olive oil mills wastes in evaporation ponds: Effects on soil properties, *Journal of Hazardous Materials*, 182: 144-155, <http://dx.doi.org/10.1016/j.jhazmat.2010.06.007>
53. Bartzas, G., **Komnitsas, K.**, (2010). Solid phase studies and geochemical modelling of low cost permeable reactive barriers, *Journal of Hazardous Materials*, 183(1-3): 301-308, <http://dx.doi.org/10.1016/j.jhazmat.2010.07.024>
54. **Komnitsas, K.**, Zaharaki, D., Doula, M., Kavvadias, V. (2011). Origin of recalcitrant heavy metals present in olive mill wastewater evaporation ponds and nearby agricultural soils, *Environmental Forensics*, 12:319-326, <http://dx.doi.org/10.1080/15275922.2011.622349>
55. **Komnitsas, K.** (2011). Potential of geopolymer technology towards green buildings and sustainable cities, *Procedia Engineering*, 21: 1023-1032, <http://dx.doi.org/10.1016/j.proeng.2011.11.2108>
56. Altun, M., Sahinkaya, E., Bektas, S., **Komnitsas, K.** (2012). Bioreduction of Cr(VI) from acidic wastewaters in a sulfidogenic ABR, *Minerals Engineering*, 32:38-44, <http://dx.doi.org/10.1016/j.mineng.2012.03.014>
57. Sahinkaya, E., Kilic, A., Altun, M., **Komnitsas, K.**, Lens, P.N.L. (2012). Hexavalent chromium reduction in a sulfur reducing packed-bed bioreactor, *Journal of Hazardous Materials*, 219-220:253-9, <http://dx.doi.org/10.1016/j.jhazmat.2012.04.002>
58. Zaharaki, D., **Komnitsas, K.** (2012). Long term behaviour of ferronickel slag inorganic polymers in various environments, *Fresenius Environmental Bulletin*, 21(8c): 2436-2440.

59. Bazdanis, G., Zaharaki, D., **Komnitsas, K.** (2012). Efficiency of organic/inorganic fixed beds to clean up solutions loaded with heavy metals, *Fresenius Environmental Bulletin*, 21(8c): 2431-2435.
60. **Komnitsas, K.**, Bazdanis, G., Sahinkaya, E., Bartzas, G., Zaharaki, D. (2012). Removal of heavy metals from leachates using permeable reactive barriers filled with reactive organic/inorganic mixtures, *Desalination and Water Treatment*, in press

Invited papers

1. **Komnitsas, K.**, A. Kontopoulos, M. Cambridge, S. Groudev, I. Lazar (1998). Proposed rehabilitating actions for mitigating marine pollution caused by mining activities in coastal Black Sea areas, *Eros Symposium on the North Western Black Sea*, Ispra, Italy, 11-13 June.
2. **Komnitsas, K.**, G. Bartzas, I. Paspaliaris (2006). Efficiency of PRBs for the treatment of groundwater contaminated by heavy metals, *NATO ARW (Advanced Research Workshop) in Environmental Security Threats in Urban Settings*, 8-9 June 2006, Athens, Greece, invited paper.
3. **Komnitsas, K.**, Kourti, I., Onisei, S., Pontikes, Y., Cheeseman, C., Moldovan, P., Boccaccini, A. (2011) Geopolymerisation potential of metallurgical slags and plasma treated APC residues, 2nd International Slag Valorisation Symposium, 18-20 April 2011, Leuven, Belgium
4. **Komnitsas, K.** (2011). Potential of geopolymer technology towards green buildings and sustainable cities, 2011 International Conference on Green Buildings and Sustainable Cities, Bologna, 14-16 Sep. 2011.

Refereed publications in International Conferences

1. Kontopoulos A., **K. Komnitsas**. Sulphuric acid pressure leaching of low-grade Greek laterites. *Proceedings of the 1st International Symposium on Hydrometallurgy*, (Zheng Yulian, Xu Jiazhong eds.), Pergamon Press, Oxford 1988, 140-144, 12-15 Oct. 1988, Beijing, China.
2. Kontopoulos A., **K. Komnitsas**. Extraction of nickel and cobalt from Greek laterites by sulphuric acid pressure leaching. *Proceedings of the International Seminar on Laterite Ore Acid Leaching Technology*, Ciudad de Moa, Holguin, Cuba, Nov. 10-17, 1991.
3. **Komnitsas K.**, F.D. Pooley. Oxidation of arsenopyrite in bacterial ferric solutions, *Hydrometallurgy '94 Conference Proceedings*, 10-14 July 1994, Cambridge, U.K, 361-367.
4. **Komnitsas K.**, F.D. Pooley. Bacterial oxidation of an auriferous arsenical pyrite concentrate, *Hydrometallurgy '94 Conference Proceedings*, 10-14 July 1994, Cambridge, U.K, 351-359.
5. Adam K., **K. Komnitsas**, N. Papassiopi, A. Kontopoulos, F.D. Pooley, N.Tidy. Stability of arsenical bacterial oxidation products, *Hydrometallurgy '94 Conference Proceedings*, 10-14 July 1994, Cambridge, U.K, 291-311.
6. Kontopoulos A., **K. Komnitsas**, A. Xenidis, E. Mylona, A. Adam. Rehabilitation of the flotation tailings dam in Lavrion. Part I. Environmental Characterisation and Development Studies, *Proceedings of the III International Conference and Workshop on Clean Technologies for the Mining Industry*, Santiago, Chile, 15-17 May 1996, 377-389.
7. Kontopoulos A., **K. Komnitsas**, A. Xenidis. Rehabilitation of the flotation tailings dam in Lavrion. Part II. Field Application, *Proceedings of the III International Conference and Workshop on Clean Technologies for the Mining Industry*, Santiago, Chile, 15-17 May 1996, 391-400.
8. Kontopoulos A., N.Papassiopi, **K. Komnitsas**, A.Xenidis. Environmental characterisation and remediation of the tailings and soils in Lavrion, *Conference Proceedings - Protection and Restoration of the Environment III*, Chania - Greece, 28-30 Aug. 1996, 484-493.
9. Kontopoulos A., **K. Komnitsas**, A. Xenidis. Environmental Characterisation of the lead smelter slags in Lavrion, *Proceedings of the IMM Minerals Metals and the Environment II Conference*, 3-6 Sep. '96, Prague, 405-419.
10. Kontopoulos A., A. Xenidis, **K. Komnitsas**, N.Papassiopi. Environmental characterisation of wastes in Lavrion, *Proceedings of Fourth International Symposium on Environmental Issues and Waste Management in Energy and Minerals Production*, R. Ciccu, ed., Calgiari, Italy, Oct. 7-11, 1996, 209-216.
11. Xenidis A., **K. Komnitsas**, N. Papassiopi, A. Kontopoulos. Environmental implications of the mining activities in Lavrion, *Engineering Geology and the Environment Conference Proceedings*, (eds. P.G. Marinos, G.C. Koukis, G.C. Tsiambaos, G.C. Stournaras), Athens, 23-27 June 1997, 2575-2580.
12. Kontopoulos A., **K. Komnitsas**, A. Xenidis. Pollution, risk assessment and rehabilitation at the Lavrion Technological and Cultural Park, Greece, *SWEMP '98 Conference Proceedings on Environmental Issues and Waste Management in Energy and Mineral Production*(eds. A. G. Pasamehmetoglu, A. Ozgenoglu), Ankara, 18-20 May 1998, 105-110.
13. Groudev S., A. Kontopoulos, I. Spasova, **K. Komnitsas**, A.Angelov, P. Georgiev. Bioremediation in situ of groundwater in a mining area, *Geocongress '98 Conference Proceedings*, Pretoria, S. Africa, 8-10 July 1998, 269-271.

14. Petrisor I.G., **K. Komnitsas**, I. Lazar. Application of a vegetative cover for remediation of sulphidic tailing dumps on a Romanian Black Sea Coastal area, *4th International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe Conference Proceedings (on CD-ROM)*, 15-17 Sep. 98, Warsaw, Poland.
15. Peppas A., **K. Komnitsas**, A. Kontopoulos. Development of remedial actions for rehabilitating Black Sea coastal areas affected by mining activities, *4th International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe Conference Proceedings*, 15-17 Sep. 98, Warsaw, Poland.
16. Groudev S., A. Kontopoulos, I. Spasova, **K. Komnitsas**, A. Angelov, P. Georgiev. In situ treatment of groundwater at Burgas Copper Mines, Bulgaria, by enhancing microbial sulphate reduction. *Proceedings of International Conference on Groundwaters Quality: Remediation and Protection*, IAHS Publications, No 250, ISBN: 1-901502-55-4, Tuebingen, Germany, 21-25 Sep. 1998, 249-255.
17. Groudev S.N., P. Georgiev, I. Spasova, A. Angelov, **K. Komnitsas**. Treatment of Acid Mine Drainage by a Pilot Scale Passive System, *International Symposium "Ecology of Post Mining Landscapes", Ecopol 99 Proceedings*, Cottbus, Germany, March 15-19, 1999.
18. Cambridge M., C. Hallett, **K. Komnitsas**. Selection of remedial actions in tailings disposal sites based on risk assessment studies: Two case studies, *Proc. International Biohydrometallurgy Symposium, IBS 1999*, (eds. R. Amils, A. Ballester), 20-23 June 1999, Madrid, 655-664.
19. **Komnitsas K.**, I. Paspaliaris, I. G. Petrisor, I. Lazar. Remediation of phosphogypsum stacks. Field pilot scale application, *Proc. International Biohydrometallurgy Symposium, IBS 1999*, (eds. R. Amils, A. Ballester), 20-23 June 1999, Madrid, 645-654.
20. Kolitsa D., **K. Komnitsas**, I. Chalikia. Use of water covers for the prevention of acid mine drainage generation, *6th Conference of Environmental Science and Technology*, Samos, Aug. 30-Sep. 2, 1999.
21. Groudev S.N., P.S. Georgiev, **K. Komnitsas**, I.I. Spasova, A. Angelov. Treatment of drainage waters from a flotation pond by a natural wetland. *Proc. Global Symposium on Recycling, Waste Treatment and Clean Technology, REWAS 99*, (eds. I. Gaballah, J. Hager, R. Solozabal), San Sebastian, Spain, 5-9 Sep. 1999, 2133-2140.
22. Groudev S.N., P.S. Georgiev, I.I. Spasova, A. Angelov, **K. Komnitsas**. A pilot scale passive system for the treatment of acid mine drainage, *Proc. of the NATO Advanced Research Workshop on Sustainable Solid Waste Management in the Southern Black Sea Region*, Sep. 27-Oct 1, 1999, Sofia, (B. Nath, Y. Pelovski and S. Stoyanov eds), 2000 Kluwer Academic Publishers, ISBN 0-7923-6680-8, Netherlands, 189-194.
23. Groudev S., T. Mitrov, **K. Komnitsas**, I. Spasova, P. Georgiev, A. Angelov. Leaching of Pollutants from Flotation Tailings in the Vromos Bay area", *Proc. of the NATO Advanced Research Workshop on Sustainable Solid Waste Management in the Southern Black Sea Region*, Sep. 27-Oct 1, 1999, Sofia, (B. Nath, Y. Pelovski and S. Stoyanov eds), 2000 Kluwer Academic Publishers, ISBN 0-7923-6680-8, Netherlands.
24. Groudev S., P. Georgiev, **K. Komnitsas**, I. Spasova, A. Angelov. Treatment of Waters Contaminated with Radioactive Elements and Toxic Heavy Metals by a Natural Wetland, *Proc. International Conference on Wetlands and Remediation*, (J.L. Means, R.E. Hinchee eds.), Salt Lake City, Utah, Nov. 16-17, 1999, 391-397.
25. Groudev S.N., **K. Komnitsas**, I.I. Spasova, P.S. Georgiev. Bioremediation in situ of soils contaminated with radioactive elements, *5th International Symposium In Situ and On Site Bioremediation*, April 19-22, 2000, San Diego, California, v. 5, No4, 103-108.
26. Groudev S.N., P.S. Georgiev, I.I. Spasova, A. Angelov, **K. Komnitsas**. Treatment of acid drainage from a uranium mine by means of a passive system, *Proc. of the 6th International Conference on Environmental Issues and Management of Wastes in Energy and Mineral Production*, SWEMP 2000, Calgary, Alberta, Canada, May 30-June 2, 2000, (R.K. Singhal, A.K. Mehrotra eds.), A.A. Balkema 2000, Rotterdam, 565-568.
27. Petrisor I.G., **K. Komnitsas**, S. Dobrota, M. Serban. Artificial inoculation: An Effective way to improve plant growth on tailing dumps, *Proceedings of the 5th International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe (on CD-ROM)*, 12-14 Sep. 2000, Prague.
28. **Komnitsas K.**, Critical factors concerning rehabilitation of abandoned phosphogypsum stacks, *MPES 2000, Proceedings of International Symposium on Mine Planning and Equipment Selection*, (Panagiotou and Michalakopoulos eds.), November 6-9, 2000, Athens, 913-918.
29. Peppas A., **K. Komnitsas**, I. Halikia. Study of the effectiveness of organic covers for the prevention of acid mine drainage generation, *Proceedings of the 3^d Conference on Mining Wealth*, 23-24 Nov. 2000, Athens, v.1, 217-226 (in Greek).
30. Groudev S., Mitrov T., Nicolova M., Spasova I, **K. Komnitsas**, I. Paspaliaris. Generation of acid drainage in a uranium ore deposit, *Proceedings of International Conference Management of Natural and Technogenic Risks*, June 4-8 2001, Sofia, Bulgaria.
31. Petrisor, I.G., **Komnitsas, K.**, Lazar, I., Voicu, A., Dobrota, S., Stefanescu, M., Kuperberg, M. Vegetative Cover for Phosphogypsum Dumps: A Romanian Field Study. *Proceedings of 2001 International Containment & Remediation Technology Conference and Exhibition*, Orlando, June 10-13, 2001.
32. **Komnitsas K.**, C. Stouraiti, I. Paspaliaris. Sulfur removal from coal beneficiation wastes, *Proceedings of the 7th Conference on Environmental Science and Technology*, Hermoupolis, Syros, Sep. 3-6, 2001, 452-459.

33. Agioutantis Z., **K. Komnitsas**. Life cycle of a tailings facility, "New frontiers in reclamation: Facts and procedures in extractive industry" Conference Proceedings (ed. Z. Agioutantis), 19-21 Sep. 2001, Milos, Greece, 207-213.
34. **Komnitsas K.**, Z. Agioutantis. Risk calculation as a key tool for the rehabilitation of mixed sulphide disposal sites, "New frontiers in reclamation: Facts and procedures in extractive industry" Conference Proceedings (ed. Z. Agioutantis), 19-21 Sep. 2001, Milos, Greece, 99-103.
35. Groudev S.N., I.I. Spasova, **K. Komnitsas**, I. Paspaliaris. Microbial heap leaching of copper and gold from a sulphide ore, *International Biohydrometallurgy Symposium IBS-2001*, (eds. V.S.T. Ciminelli, O. Garcia Jr.), Ouro Preto, Minas Gerais, Brazil, Sep. 16-19, 2001, Process Metallurgy Series, Elsevier, ISBN: 0444506233 (A&B), 581-586.
36. Zilberchmidt, M., M. Shpirt, **K. Komnitsas**, I. Paspaliaris. Environmental and economic potential of thermal treatment of high-sulfur coal wastes, *SWEMP 02 Conference Proceedings* (ed. R. Ciccu), October 2002, Cagliari, 507-514.
37. **Komnitsas, K.**, Z. Agioutantis. Environmental assessment and sustainable development framework in the mining industry, *Sustainable Development Indicators in the Mineral Industries (SDIMI)*, Conference Proceedings (ed. Z. Agioutantis), 2003, Milos, 53-58.
38. Groudev, S. N., **K. Komnitsas**, I. I. Spasova, P.S. Georgiev, I. Paspaliaris. Feasible rehabilitation schemes at an abandoned uranium mine site, *Sustainable Development Indicators in the Mineral Industries (SDIMI)*, Conference Proceedings (ed. Z. Agioutantis), 2003, Milos, 323-328.
39. Groudev, S.N., **K. Komnitsas**, I.I. Spasova & I. Paspaliaris, Clean-up of Mine Waters from a Uranium Deposit by Means of a Constructed Wetland, *IBS 2003 proceedings* (M. Tsezos, ed.), 14-19 Sep. 2003, Athens, Greece, 57-64.
40. Groudev S., I. Spasova, **K. Komnitsas**, I. Paspaliaris, P. Georgiev, M. Nicolova. Factors and mechanisms affecting seasonal bioremediation of contaminated leachates in a natural wetland, *AMIREG 2004 Conference proceedings* (eds. Z. Agioutantis, K. Komnitsas), 7-9 June 2004, Chania, Crete, 525-529.
41. Triantafyllou, G., **K. Komnitsas**. Sustainability of the cement industry, *AMIREG 2004 Conference proceedings* (eds. Z. Agioutantis, K. Komnitsas), 7-9 June 2004, Chania, Crete, 299-304.
42. **Komnitsas, K.**, G. Bartzas, I. Paspaliaris. Evaluation of low cost materials for the decontamination of acidic leachates using permeable reactive barriers, *Proceedings of the International Conference on Sustainable Post Mining land Management*, (eds. C. Heberstreit, J. Kudelko, J. Kulczycka), 4-6 Nov. 2004, Krakow, Poland, 161-170.
43. **Komnitsas, K.** (2005). Clean up of leachates and groundwater using permeable reactive barriers, *Proceedings of the 5th National Conference for the Management of Water Resources*, 6-9 April, Xanthi, Greece, 87-94 (in Greek).
44. Agioutantis, Z., **K. Komnitsas**, K. Mpounou (2005). Risk quantification in the mineral sector, 2nd Conference on "Sustainable Development Indicators in the Minerals Industry" Proceedings, SDIMI 2005, 18-20 May 2005, 701-713.
45. **Komnitsas, K.**, G. Bartzas, I. Paspaliaris (2005). Hydraulic performance of laboratory PRBs for the decontamination of acidic mine waters, *Proceedings of the IMWA '05 - 9th International Mine Water Association Congress*, Sep. 5-7, Oviedo, Spain, 347-354.
46. Zaharaki, D., **K. Komnitsas** (2005). Use of factorial design in environmental, geotechnical and waste management experimentation – a case study, *Proceedings of the International Workshop "Geoenvironment and Geotechnics"* (eds. Z. Agioutantis, K. Komnitsas), Sep. 12-14, 2005, Milos island, Greece, 261-268.
47. **Komnitsas, K.**, G. Bartzas, I. Paspaliaris (2006). Efficiency of PRBs for the treatment of groundwater contaminated by heavy metals, *NATO ARW (Advanced Research Workshop)*, 8-9 June 2006, Athens, Greece.
48. Triantafyllidis, S., N. Skarpelis, **K. Komnitsas** (2006). Environmental impact assessment of the Kirki (Thrace, NE Greece) flotation tailings disposal site, *AMIREG 2006 Conference Proceedings*, (eds. Z. Agioutantis, K. Komnitsas), 25-27 Sep., Chania, Crete.
49. Zaharaki, D., **K. Komnitsas**, V. Perdikatsis (2006). Factors affecting synthesis of ferronickel slag based geopolymers, *AMIREG 2004 Conference proceedings* (eds. Z. Agioutantis, K. Komnitsas), 25-27 Sep., Chania, Crete.
50. Fafoutis, I., **K. Komnitsas** (2006). Manganese and copper removal from leachates using slag and red mud barriers, *AMIREG 2006 Conference proceedings* (eds. Z. Agioutantis, K. Komnitsas), 25-27 Sep., Chania, Crete, 735-740
51. Modis, K., **K. Komnitsas** (2007). Optimum sampling density for the prediction of acid mine drainage in an underground sulphide mine, *Proceedings of International Mine Water Association (IMWA) Symposium 2007*, (F. Frau and R. Cidu eds.), 27-31 May 2007, Cagliari, Italy, 99-103.
52. Valta, K., **K. Komnitsas**, M. Grossou-Valta (2007). Sustainable Development Indicators for the Greek Industrial Minerals' Sector, *Proceedings 3rd International Conference on Sustainable Development Indicators in the Minerals Industry*, (ed. Z. Agioutantis), June 17-20, Milos Island, Greece, 189-196.

53. Zhu X., D. Li, **K. Komnitsas** (2007). Development of an indicator based revegetation SDSS in areas affected by mining activities, *Proceedings 3rd International Conference on Sustainable Development Indicators in the Minerals Industry*, (ed. Z. Agioutantis), June 17-20, Milos Island, Greece, 267-274.
54. Konialis, K., **K. Komnitsas**, Z. Agioutantis (2007). Rethinking capacity building, *Proceedings 3rd International Conference on Sustainable Development Indicators in the Minerals Industry*, (ed. Z. Agioutantis), June 17-20, Milos Island, Greece, 389-396.
55. **Komnitsas, K.**, K. Valta, M. Grossou-Valta (2007). Sustainable development in the Greek Mining and Minerals Industry, In *Proc. of SECOTOX Conference and the International Conference on Environmental Management, Engineering, Planning and Economics*, (eds. A. Kungolos, K. Aravossis, A. Karagiannidis and P. Samaras), Skiathos, June 24-28, 2767-2772.
56. Zaharaki, D., **K. Komnitsas**, V. Perdikatsis (2007). Factors affecting the production of waste-based geopolymers, *VI International Congress on Valorisation and Recycling of Industrial Wastes (VARIREI)*, L'Aquila, Italy, 27-29 June 2007, in CD-ROM.
57. **Komnitsas, K.**, K. Manousaki, D. Zaharaki (2007). Assessment of reactivity of sulphidic tailings and river sludges, *Proceedings of the 23rd International Applied Geochemistry Symposium (IAGS 2007)*, Oviedo, Spain, June 14-19.
58. **Komnitsas, K.**, Bartzas, G., Zaharaki D. and Fytas, K. (2007). Treatment of highly acidic mine discharges in multi-component permeable reactive barriers: Column and modelling studies. In: *Proceedings of 3rd International symposium on PRBs and RZs*, (ed. M. Petraglini-Papini), November 8-9, Rimini, Italy, 63-67.
59. Zaharaki, D., **K. Komnitsas** (2008). Effect of additives on the compressive strength of slag-based inorganic polymers, *Proceedings (on CD ROM) of 2nd International Conference on Engineering for Waste Valorisation*, Patras, Greece, 3-5 June 2008.
60. Zaharaki, D., **K. Komnitsas**, G. Bartzas (2008). Geotechnical stability of slag-based inorganic polymers in several environments, *Proceedings of GeoEnv08 (International Workshop on Geoenvironment and Geotechnics*, Milos, 8-9 Sep. 2008, 187-192.
61. Basdanis, G., **K. Komnitsas**, Zaharaki, D. (2008). Stabilisation of sulphidic talings using red mud, *Proceedings 1st International Conference on "Hazardous Waste Management"*, Chania, Oct. 1-3, 2008.
62. Zaharaki, D., **K. Komnitsas** (2008). Durability of slag-based inorganic polymers, *Proceedings of the 1st International Conference on Indicators for Land Rehabilitation and Sustainable Development (ILR-SUD) 2008*, Beijing, China, Oct. 20-21, 2008.
63. Zaharaki, D., **K. Komnitsas** (2008). Durability of slag-based inorganic polymers, *Proceedings of the 1st International Conference on Indicators for Land Rehabilitation and Sustainable Development (ILR-SUD) 2008* (eds. D. Li, K. Komnitsas), Beijing, China, Oct. 20-21, 2008.
64. Agioutantis, Z., **K. Komnitsas**, D. Vavadakis, J. Klerkx (2008). Groundwater flow modeling in the vicinity of a metallurgical processing plant in the D.R. Congo, *Proceedings of the 1st International Conference on Indicators for Land Rehabilitation and Sustainable Development (ILR-SUD) 2008* (eds. D. Li, K. Komnitsas), Beijing, China, Oct. 20-21, 2008.
65. Agioutantis, Z., **K. Komnitsas**, D. Vavadakis, J. Klerkx (2008). Contaminant transport modeling in the vicinity of a metallurgical processing plant in the D.R. Congo, *Proceedings of the International Symposium on RESEARCH AND MANAGEMENT OF SUBSOIL RESOURCES (INGESUB'2008)*, (eds. J.A López-Geta, J. Pérez-Loredo, L. Ruiz-Fernández, J.M. Liera-Pernia), 10-11 Nov. 2008, Oviedo, Spain, 171-182.
66. Zaharaki, D., **K. Komnitsas** (2009). Role of alkali metals on the synthesis of low Ca ferronickel slag-based inorganic polymers, *3rd Amireg International Conference Proceedings: Assessing the Footprint of Resource Utilization and Hazardous Waste Management* (eds. Z. Agioutantis, K. Komnitsas), 7-9 Sep. 2009, Athens, Greece, <http://heliotopos.conferences.gr/?amireg2009>, in CDR
67. Zaharaki, D., **K. Komnitsas** (2009). Existing and emerging technologies for the treatment of olive oil mill wastewaters, *3rd Amireg International Conference Proceedings: Assessing the Footprint of Resource Utilization and Hazardous Waste Management* (eds. Z. Agioutantis, K. Komnitsas), 7-9 Sep. 2009, Athens, Greece, <http://heliotopos.conferences.gr/?amireg2009>, in cd-rom
68. Bazdanis, G., D. Zaharaki and K. Komnitsas (2009). Study of mechanisms of manganese removal from leachates, *3rd Amireg International Conference Proceedings: Assessing the Footprint of Resource Utilization and Hazardous Waste Management* (eds. Z. Agioutantis, K. Komnitsas), 7-9 Sep. 2009, Athens, Greece, <http://heliotopos.conferences.gr/?amireg2009>, in cd-rom.
69. Guo, X., D., Li, **K. Komnitsas** (2009). Change of vegetation coverage at the abandoned haizhou coal mining and waste disposal site, in china, using Markov chain models, *3rd Amireg International Conference Proceedings: Assessing the Footprint of Resource Utilization and Hazardous Waste Management* (eds. Z. Agioutantis, K. Komnitsas), 7-9 Sep. 2009, Athens, Greece, <http://heliotopos.conferences.gr/?amireg2009>, in cd-rom
70. Katsimicha, D., D. Pentari, V. Perdikatsis, **K. Komnitsas** (2009). Determination of Hg in selected Greek soils and sea sediments, *3rd Amireg International Conference Proceedings: Assessing the Footprint of Resource Utilization and Hazardous Waste Management* (eds. Z. Agioutantis, K. Komnitsas), 7-9 Sep. 2009, Athens, Greece, <http://heliotopos.conferences.gr/?amireg2009>, in cd-rom

71. Zaharaki, D., **K. Komnitsas**, V. Perdikatsis (2009). Identification of inorganic polymer gel composition, the 6th International Conference on Instrumental Methods of Analysis – Modern Trends and Applications, 4-8 Oct. 2009, Athens, Greece, http://www.chem.uoa.gr/ima2009/ima_01_homepage1.htm
72. G. Bartzas, **K. Komnitsas** (2009). Solid phase studies and geochemical modelling of low-cost permeable reactive barriers, , the 6th International Conference on Instrumental Methods of Analysis – Modern Trends and Applications, 4-8 Oct. 2009, Athens, Greece, http://www.chem.uoa.gr/ima2009/ima_01_homepage1.htm
73. Zaharaki, D., **K. Komnitsas** (2009). Durability of slag-kaolinite inorganic polymers in various environments, 5th Panellenic Ceramics Conference, NTUA, Athens, 22-23 Oct. 2009 (in Greek)
74. Kavvadias, V., Sarris, A., Doula, M., Zaharaki, D., Arapoglou, D., **Komnitsas, K.**, (2010). Soil quality monitoring in olive oil mill waste disposal sites, *2nd International Conference "Hazardous and Industrial Waste Management"*, Chania, Crete, October 5th - 8th, 2010.
75. Zaharaki, D., **Komnitsas, K.**, (2010). Long term behaviour of ferronickel slag inorganic polymers in various environments, *2nd International Symposium on Green Chemistry for Environment and Health, Mykonos*, Sep. 27-29, 2010, <http://www.greenchem2.prd.uth.gr/>
76. Bazdanis, G., Zaharaki, D., **Komnitsas, K.**, (2010). Efficiency of organic/inorganic fixed beds to clean up leachates, *2nd International Symposium on Green Chemistry for Environment and Health, Mykonos*, Sep. 27-29, 2010, <http://www.greenchem2.prd.uth.gr/>
77. Bazdanis, G., **Komnitsas, K.**, Sahinkaya, E., Zaharaki, D., (2011). Removal of heavy metals from leachates using permeable reactive barriers filled with reactive organic/inorganic mixtures, *3rd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2011) & SECOTOX Conference*, Skiathos, June 19-24, 2011, <http://www.cemepe3.prd.uth.gr/>
78. **Komnitsas K.**, G. Bazdanis, G. Bartzas, D. Zaharaki and E. Sahinkaya (2012). Prevention of groundwater contamination in waste disposal sites using composite reactive barriers, *International Conference "Protection and Restoration of the Environment-XI (PRE-XI)"* proceedings (in CD-ROM), Editors: K.L. Katsifarakis, N. Theodossiou, C. Christodoulatos, A. Koutsospyros and Z. Mallios, Thessaloniki, Greece (3-6 July), p. 453-462, <http://www.pre11.org/>
79. Zaharaki D. and **K. Komnitsas** (2012). Effects of pre-treated olive mill wastewaters on soils and plant growth, *International Conference "Protection and Restoration of the Environment-XI (PRE-XI)"* proceedings (in CD-ROM), Editors: K.L. Katsifarakis, N. Theodossiou, C. Christodoulatos, A. Koutsospyros and Z. Mallios, Thessaloniki, Greece (3-6 July), p. 605-614, <http://www.pre11.org/>
80. **Komnitsas, K.**, Zaharaki, D., Hernández, M.T., Moreno Ortego, J.L., Izquierdo, C.G., Tinivella, F., Minuto, G., Medini, L., Micharikopoulos, D. and Tavlaki, E. (2012). Best practices for Agricultural Wastes (AW) treatment and reuse in the Mediterranean countries (WasteReuse), *ATHENS 2012 International Conference on Sustainable Solid Waste Management*, 28th-29th June 2012, <http://uest.ntua.gr/athens2012/>

8. IMPLEMENTATION OF RESEARCH PROJECTS

Completed

1. *Jan.-Oct. '85*: Leaching and flotation of magnesite ores, funded by FIMISCO S.A., Greece, principal researcher, supervised by late Prof. A. Kontopoulos (NTUA).
2. *Oct. '85-Feb. '87*: Present status and development prospects of the Greek metallurgical industry during 1985-1995, funded by the Greek General Secretariat of Research and Technology (GSRT), member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
3. *Oct. '86-Aug. '88*: Development of an industrial method for sulphuric laterites leaching, funded by the GSRT, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
4. *Sep. '87-Aug. '88*: Recovery of magnesium from flotation tailings, funded by ELEVME, Greece, principal researcher, supervised by late Prof. A. Kontopoulos (NTUA).
5. *Jan.-Aug. '88*: Strength of iron ores at low temperatures, funded by Parnassos Bauxites S.A, Greece, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
6. *May-Dec. '90*: Bacterial leaching of zinc flotation tailings, funded by HZL, India, principal researcher, supervised by Prof. F.D. Pooley (University of Wales, College Cardiff, U.K).
7. *May-Dec. '90*: Recovery of metals from flotation tailings, funded by SOMINCOR Portugal, principal researcher, supervised by Prof. F.D. Pooley (University of Wales, College Cardiff, U.K).
8. *Jan. '93-June '95*: Optimization of bacterial leaching for the treatment of refractory arseniferous gold ores, funded by EC, Contract No MA2M-CT90-0055, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
9. *Jan. '93-Feb. '94*: Modern technologies for the production of secondary lead from used batteries, funded by GSRT, Contract No 90 BE 63, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).

10. *Aug.'93-Jan.'96*: Bioremediation of sites affected by acid mine drainage by accelerated bioleaching of mine wastes, funded by EC, Contract No EV5V-CT93-0248, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
11. *Nov.'93-Oct.'95*: Kinetic study of pressure laterite leaching and determination of precipitated compounds, funded by GSRT, PAVE program, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
12. *Sep.'92-Aug.'97*: Environmental management in the mining and metallurgical industry, 2 consecutive TEMPUS projects, Contract Nos, JEP-03657-92 και JEP-03657-BG95, funded by Tempus Office, member of a team, supervised by late Prof. A. Kontopoulos (NTUA).
13. *Apr.-June '95*: Remediation actions at Lavrion Technological Park (ex lead smelter), Greece, funded by NTUA, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
14. *July '95-Feb.'96*:Lavrion slags toxicity – potential use for the extension of Lavrion harbour, funded by Alfa Techniki S.A, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
15. *Nov.'95-Apr.'96*: Environmental Assessment at Lavrion Technological Park, funded by Greek Structural Fund, member of a research team, supervised by Prof. K. Kassios (NTUA).
16. *Dec.'95- Nov.'96*: Rehabilitation of a tailings dam at Lavrion Technological Park, funded Greek Structural Fund, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
17. *Feb.'97-July'99*: Pollution at Black Sea coastal areas due to mining activities. Pilot scale rehabilitation actions, funded by EC, Contract No IC15-CT96-0114, member of a research team, supervised by late Prof. A. Kontopoulos (NTUA).
18. *Apr. '97-June'99*: Prevention of acide mine drainage generation at Lavrion by wet-dry covers, funded by GSRT, PENED program, Contract No 95 ED 917, member of a research team, supervised by late Prof. A. Kontopoulos – Prof. I. Halikia (NTUA).
19. *June '97-May '98*: Risk assessment at lignite mines, funded by the Greek Power Corporation (DEH), member of a research team, supervised by Prof. K. Kassios (NTUA).
20. *Sep. '98-Aug.2000*: Study and application of remediation technologies for mitigation of pollution emanating from uranium wastes in Romania, funded by GSRT, Greek-Romania bilateral cooperation program, principal researcher, supervised by Prof. I. Halikia (NTUA).
21. *Jan. '98-Dec. '99*: Pollution prevention and rehabilitation techniques at mining areas, funded by the Greek Ministry of labour, ADAPT program, member of a research team, supervised by Prof. K. Kassios (NTUA).
22. *Oct. '99-Mar.'01*: Oprimized system for waste management at a lead smelter, funded by GSRT, program EPET II, principal researcher, supervised by Prof. I. Paspaliaris (NTUA).
23. *Oct.99-Dec. 2000*: Integrated soil rehabilitation at Lavrion Technological Park, funded by Greek Structural Fund, member of a research team, supervised by Prof. P. Neou (NTUA).
24. *Sep.'00-Dec.'03*: Environmental management of hazardous mining wastes and effluents (Enviman), funded by EC, Copernicus II project, Contract No ICA2-CT-2000-10010, principal researcher, supervised by Prof. I. Paspaliaris (NTUA).
25. *Mar.'00–Feb.'03*. Life cycle assessment of mining and metallurgical projects (Licymin). Funded by EC, Growth Program, Contract No G1RD-CT2000-00162, member of a research team, supervised by Prof. I. Paspaliaris (NTUA).
26. *Oct. 2003- May 2005*. Prevention of groundwater pollution from effluents produced by mining and metallurgical activities with the use of permeable reactive barriers, Funded by: "Alexander S. Onassis" Foundation, Scientific Coordinator TUC.
27. *Aug '04–Jul. '07*. Integrated treatment of industrial wastes towards prevention of regional water resources contamination (INTREAT), INCO C.1 Environment STREP, funded by the EC, budget TUC 170,000 €, scientific co-ordinator TUC, Webpage: <http://www.labmet.ntua.gr/intreat/>
28. *Sep '04 – Aug '06*. Integrated industrial solid waste management in Albania (INSWAM – AL), INCO C.1 Environment, SSA, funded by the EC, budget TUC 70,000 €, scientific co-ordinator TUC, Webpage: <http://www.mred.tuc.gr/projects/inswab/index.htm>
29. *Mar.'04 - Aug.'06*. Innovative technologies for the management of hazardous mining wastes towards prevention of groundwater contamination, funded by the Greek Ministry of Education, PYTHAGORAS program, budget 50,000 €, scientific coordinator TUC.
30. *Sep. '05 – Aug. '07*. Management and remediation of hazardous industrial wastes in the Western Balkan Countries (INDUWASTE). INCO C.1 Environment, SSA, funded by the EC, budget TUC 40,000 €, webpage: <http://www.ibes.be/induwaste/>, scientific coordinator TUC
31. *Apr. '06 – Dec. '06*. Risk assessment study at the Somika plant, Katanga province, Kongo, Contrat No 48/Copirep/SE/03/2006, funded by COPIREP, budget TUC 30,000 €, consultancy (coordinator IBES, BE).

32. Jan. '06 – Dec. '07. Strategic plan for prevention of regional water resources contamination from mining and metallurgical activities in Western Balkan Area (PREWARC), INCO C.1 Environment, SSA, funded by the EC, budget TUC 25,000 €, scientific co-ordinator TUC, webpage: <http://www.labmet.ntua.gr/prewarc/index.htm>
33. Jan. '06 – Dec. '07. Integrated system for the rehabilitation of contaminated areas in waste disposal sites with the use of innovative technologies, Bilateral Sino-Greek cooperation project, funded by the Greek General Secretariat of Research and Technology, budget TUC 11,150 €, scientific co-ordinator TUC, <http://www.mred.tuc.gr/projects/GR-China/index.htm>
34. Oct. '06. - Sep. '07. Elucidation of inorganic polymers synthesis mechanisms, funded by the Research Committee of Technical University Crete, basic research project, scientific coordinator.
35. June '06 – May '08. Optimization of the permeable reactive barriers performance for the decontamination of leachates and groundwater, bilateral Greek-Canada cooperation project, funded by the Greek General Secretariat of Research and Technology, budget TUC 40,000 €, scientific co-ordinator TUC, <http://www.mred.tuc.gr/p042.htm>
36. Oct. '07 – Sep. '08. Elucidation of manganese removal mechanisms from metallurgical process solutions and leachates generated at waste disposal sites, funded by the Research Committee of Technical University Crete, basic research project, scientific coordinator, <http://www.mred.tuc.gr/projects/GeoImmobi/GeoImmobi.html>
37. Jan. 08 – Dec. 10: Consultancy services for the development of an ISO 14001 Environmental Management System at LARCO S.A, funded by Speed Ltd, consultancy
38. Oct. '08 – Sep. '10. Elucidation of heavy metal immobilisation mechanisms in inorganic polymers synthesized from electric arc ferronickel slag funded by the Research Committee of Technical University Crete, basic research project, scientific coordinator.
39. July 2011-July 2012. Strategic study for the development of good practices towards the improvement of working environment in Greek Enterprises, participants: Technical University Crete, Eco- Efficiency Consulting and Engineering Ltd, Athanassakis – Bogris Co., Funded by STEGI of Hellenic Federation of Enterprises, Budget TUC: 45.000 €, <http://www.tuc.gr/2002.html> (website in Greek)

Running

40. Jan. 2009 – Dec. 2012. Strategies to improve and protect soil quality from the disposal of olive oil mills' wastes in the Mediterranean region, Life+ project (PROSODOL), funded by the European Commission, Budget TUC 312.493 €, scientific coordinator, <http://www.prosodol.gr/>
41. July 2011-June 2013. Treatment of Acid Mine Drainage Using Permeable Reactive Barriers (In-Situ Treatment) and Anaerobic Baffled Reactors (Ex-Situ Treatment), bilateral cooperation Greece-Turkey, cooperation with Harran University, funding by General Secretariat of Research and Technology, scientific coordinator TUC, <http://www.tuc.gr/treatamd.html>
42. Sept. 2011-Aug. 2015. Best practices for agricultural WASTEs (AW) treatment and REUSE in the Mediterranean countries, LIFE+ Environment Policy and Governance 2010, Participants: TUC, Centro de Edafologia y Biologia Aplicada del Segura, Consejo Superior de Investigaciones Cientificas (CEBAS-CSIC) (Spain), Regional Center for Agricultural Experimentation and Assistance (CERSAA) (Italy), Chemical Laboratory of the Chamber of Commerce of Savona (Laboratorio Chimico CCIAA) (Italy), SIGNOSIS SPRL. (SIGNOSIS), (Belgium), funded by EC, Total project budget 1.384.799 €, TUC budget: 277.088 €, TUC coordinator, www.wastereuse.eu
43. Feb. 2012-Jan. 2014. FeNi slag utilisation for the production of building components – identification of their microstructure, funded by Research Committee of TUC, coordinator, budget: 15,000 €.
44. Sep. 2012 (est.) – Sep. 2015. Development of an integrated methodology for the management, treatment and valorisation of hazardous waste (WasteVal), Thalís project. Partners: Laboratory of Metallurgy (NTUA), Laboratory of Electron Microscopy, Department of Physics (AUTH), General and Inorganic Chemical Technology, Department of Chemistry (AUTH), Research Unit of Mining / Metallurgical Waste Management and Rehabilitation of Contaminated Soils (TUC), Budget: 521.000€, funded by the Greek Ministry of Education
45. Oct. 2012 – Sep. 2016. Sustainable strategies for the improvement of seriously degraded agricultural areas: The example of Pistachia vera L., LIFE+ Environment Policy and Governance 2011, Participants: TUC, Hellenic Agricultural Organization "ELGO-DEMETER"-Soil Science Institute of Athens (coordinator), Institute of Mediterranean Studies Foundation for Research and Technology, funded by EC, Total project budget 1.026.509 €, TUC budget: 175.233 €.
46. Jan. 2013 (est) – Dec. 2015. Recycling of quarry dust and construction and demolition wastes for the production of novel ecological building elements, Cooperation Project, Participants: Research unit "Quality Control-Health and Safety in Minerals Industry" (TUC, coordinator), Research unit "Management of mining / metallurgical wastes and rehabilitation of contaminated soils" (MWSR), Technobeton S.A, Finobeton S.A, funded by General Secretariat of Research and Technology, Project budget: 504.250 €, MWSR TUC budget: 102.500 €.
47. Jan. 2013 (est) - Dec. 2015. Development of Mathematical Predictive Model coupled with Neural Network smoothing algorithms to Optimize Operating Conditions and Improve Energy Efficiency of Rotary Kiln and Electric Arc Furnaces in Ferronickel Production Plants (MANNFENI), Cooperation Project, Participants: NTUA (Lab. of Metallurgy, coordinator), TUC, LARCO (FeNi plant), ELKEME, TEC, funded by General Secretariat of Research and Technology, Project budget: 821.421 €, TUC budget: 69.100 €.