

Dimitris Dermatas, Ph. D.

School of Civil Engineering, Department of
Water Resources & Environmental Engineering
National Technical University of Athens
5, Heroon Polytechniou Str., 15780 Athens, GR
Tel: +30-210-7722835
e-mail: dermatas@gmail.com

I. RESEARCH AND PROFESSIONAL INTERESTS

Main thrust of expertise involves the geo-environmental aspects of engineering applications, with an emphasis on *contaminated land remediation* and *sustainable environmental practices for integrated waste management*. Current professional involvement is in the area of *development and implementation of environmental programmes and projects* promoting the *integration of environmental concerns into national planning processes* to achieve *sustainable development for both the government and private sector*.

Research and development areas of interest include: surface chemistry and interactions, solid waste physics, physicochemical waste behavior, waste-water interactions, hazardous waste material characterization, stabilization and modification. Recent projects concentrate on heavy metal contamination/remediation applications, such as environmental impact and management options for Chromite Ore Processing Residue (COPR) focusing on its hexavalent Cr release mechanisms as well as lead, tungsten, thorium, depleted uranium, and other heavy metals and organic contaminants associated with U.S. Department of Defense training ranges, chemical fixation/immobilization of lead and mercury in soils, wastes and sludges, adsorption behavior of arsenic in natural systems, arsenic removal and filtration from contaminated media, etc. Additional projects involve the fate and transport of organic contaminants and trace metals in porous media and the stabilization/solidification of organic and inorganic hazardous waste forms.

II. EDUCATION

Ph. D. in Civil Engineering, University of California, Berkeley CA, May 1992. Research Advisor: James K. Mitchell.

Master of Science in Civil Engineering, University of California, Berkeley CA, December 1988. Research Advisor: James K. Mitchell.

Bachelor of Engineering with High Honor and Thesis, Stevens Institute of Technology, Hoboken NJ, May 1987. Research Advisor: George P. Korfiatis. Thesis: *Mathematical Modeling of Flow in Landfill Liners*.

III. EXPERIENCE

2/10-present: Associate Professor, School of Civil Engineering, Dept. of Water Resources and Environmental Engineering, National Technical University of Athens, Athens, GREECE

6/11-3/13: National Representative and Member of Policy Committee, Municipal Waste Europe (MWE), Brussels, BELGIUM

6/09- 6/13: Board of Directors, National Network of Waste Management Authorities (DIFODISA),

Thebes, GREECE

10/08-2/10: General Director Waste Management Authority Eastern Macedonia-Thrace (ΔΙ.Α.ΜΑ.Θ. Α.Ε.)

5/06- present: Special Advisor on Environmental Issues for the Waste Management Authority Eastern Macedonia-Thrace (ΔΙ.Α.ΜΑ.Θ. Α.Ε.), Secretary General, Eastern Macedonia-Thrace Region, the Minister of the Environment and Climatic Change, the Ministry of the Interior, the Mayor of Thessaloniki and the Central Association of Municipalities of Greece

9/92- present: Consultant/Project Management in Geotechnical and Geo-Environmental projects.

6/07- 9/08: Technical Director Waste Management Authority Eastern Macedonia-Thrace (ΔΙ.Α.ΜΑ.Θ. Α.Ε.)

9/94- 8/2006: Director, W. M. Keck Geoenvironmental Laboratory and Associate Professor, Civil, Environmental, and Ocean Eng. Dept., Stevens Institute of Technology, Hoboken, N. J. , USA

9/94-9/97: Director, W. M. Keck Geoenvironmental Laboratory and Assistant Professor, Civil, Environmental, and Ocean Eng. Dept., Stevens Institute of Technology, Hoboken, N. J., USA

9/91-9/94: Assistant Professor, Civil, Environmental, and Ocean Eng. Dept., Stevens Institute of Technology, Hoboken, N. J., USA

LIST OF SELECTED RESEARCH PROJECTS

Since my return back to Greece in 2006, I have participated at different levels in the following projects:

–‘*SPECHROM- Spectroscopic and Computational Investigation of Chromium binding on Pure Minerals and Asopos Aquifer Soils*’, July 2013- June 2015, Principal Investigator, funded by EU Marie Curie Actions - ITN
€222.484

–‘*CHARM- Chromium in Asopos groundwater system: remediation technologies and measures*’, LIFE10 ENV/GR/, funded by EU Life, October 2011- August 2015, Co-Principal Investigator with Dr. Mamais, NTUA
€2.704.358

–‘*Solid Waste management options for greenhouse gases emissions control*’, LIFE+ 09 ENV/GR/294, funded by EU Life, October 2010-December 2012, Project Partner Leader
€2.363.204

–‘*Assessment of Contamination Regime in the Closed Regional Landfill of Megara*’, Municipality of Megara, February- June 2012, Principal Investigator €24.600

–‘*Expert Assessment of Contamination of the Asopos River Basin*’, Greek Ministry of the Environment and Climatic Change (YPEKA), March-May 2011, Co-Principal Investigator with Dr. Mamais €9.980

– ‘*Environmental Impact Study for the Construction of the Eptahori - Samarina Highway Section*’, funded by the Directorate of Public Works of Western Macedonia, March 2005-December 2007, Project Engineering Director
€51.432

Over the 12 years of involvement at the Director level of the W. M. Keck Geoenvironmental Engineering Lab more than \$15.5 million of research funds have been obtained, mainly as a Principal Investigator. Research projects involved in include:

–“*Bench-scale treatability study on COPR treatment using gypsum and calcium polysulfide*”, Honeywell, March 2006-December 2008, Principal investigator \$158,656

–“*Mineralogical Evaluation and Heave Potential Implications of CH2MHill Ferrous Sulfide Treatability Samples*”, Honeywell, January-February 2006, Principal investigator \$13,468

–“*Mineralogical Evaluation and Heave Potential Implications of SA3 Trenching Samples*”, Honeywell, October-December 2005, Principal investigator \$25,000

–“*Mineralogy of pugmill samples and swell testing of COPR treated with ferrous sulfate*”, approved by Honeywell International, Honeywell, August-December 2005, Principal investigator \$77,682

–“*Munitions Environmental Technology Development and Life Cycle Studies: Development and Assembly of Soil Treatment Environmental Technology Laboratory and Indoor Gun Range Equipment and Support*”, US Department of Defense (DOD), July 2005-June 2007, Co-Principal Investigator with Dr. Christodoulatos, Dr. Becker and Dr. Meng \$4,160,000

–“*Trenching and Laboratory Investigations to Monitor the Swell Behavior of the Treated COPR Plots*”, Honeywell, July-October 2005, Principal Investigator \$114,000

–“*A study on chromium speciation in chromite ore processing residue (COPR) by using XANES spectroscopy*”, Honeywell, May-October, 2005, Principal Investigator \$138,272

–“*Mineralogical Analyses for Site Characterization at DMT*”, Honeywell, February 2005-June 2005, Principal Investigator \$23,950

–“*Pre- and Post-Application Testing and Monitoring Support for the Implementation of the Field Demonstration Studies at SA7*”, Honeywell, November 2004- December 2007, Principal Investigator \$563,350

–“*Evaluation of Cr(VI) Release and Treatment Technologies*”, Honeywell, October 2004-December 2007, Principal Investigator \$309,967

–“*Evaluation of COPR Heave Magnitudes by Laboratory 1-Dimensional Confined Swell Testing*”, Honeywell, August 2004-March 2005, Principal Investigator \$176,103

–“*Evaluation of COPR Heave Mechanism by Exploratory Trenching at Dundalk Marine Terminal*”, Honeywell, June 2004-February 2005, Principal Investigator \$153,930

–“*Green Armament Technologies and Range Transformation*”, US Department of Defense (DOD), June 2004-December 2007, Principal Investigator \$965,000

–“*Best Management practices for New Jersey Shooting ranges*”, New Jersey Department

of Environmental Protection (NJDEP), April 2004-2005, Principal Investigator
\$57,422

–“*Investigation of COPR Heave and Cr Release Mechanisms*”, Honeywell, October 2003-February 2005, Principal Investigator
\$460,00

– “*Continuous Processing, Characterization and Testing of Energetic Materials*”, US Department of Defense (DOD), June 2003-December 2006, Co-Principal Investigator with Dr. Christodoulatos, Dr. Becker and Dr. Meng.
\$2,100,000

– “*Development of a State-of-the-art Soil Washing Technology Research Initiative*”, US Department of Defense (DOD), August 2002-December 2005, Principal Investigator.
\$250,000

– “*Development and Demonstration of Technologies for the Treatment of Multimedia Contamination*”, US Department of Defense (DOD), November 2002-December 2006, Co-Principal Investigator with Dr. Christodoulatos and Dr. Meng.
\$1,444,765

–“*Investigation on the Fate and Transport and Toxicity of Tungsten and Molybdenum Alloys Utilized in Munition Applications in Soil Environments*”, US Department of Defense (DOD), July 2002-December 2006, Co-Principal Investigator with Dr. Christodoulatos.
\$416,000

–“*Range Management and Remediation Technology Assessment, Development and Demonstration*”, US Department of Defense (DOD), June 2002- December 2005, Principal Investigator.
\$200,000

–“*Range Management and Remediation Technology Assessment, Development and Demonstration; Ft. Irwin: Continuation*”, US Department of Defense (DOD), June 2001-December 2004, Principal Investigator.
\$715,000

–“*Investigation on the Fate and Transport and Toxicity of Tungsten Alloys Utilized in Munition Applications in Soil Environments*”, US Department of Defense (DOD), July 2001- December 2004, Co-Principal Investigator with Dr. Christodoulatos.
\$800,000

–“*Development of a State-of-the-art Soil Washing Technology Research Initiative*”, US Department of Defense (DoD), August 2001-September 2004, Principal Investigator.
\$343,000

–“*Range Management and Remediation Technology Assessment, Development and Demonstration; Ft. Irwin*”, US Department of Defense (DOD), August 2000- December 2003, Principal Investigator.
\$2,460,000

–“*Range Management and Remediation Technology Assessment, Development and Demonstration: Aberdeen and Kirkland*”, US Department of Defense (DOD), August 2000-December 2003, Co-Principal Investigator with Dr. Korfiatis and Dr. Christodoulatos.
\$1,640,000

–“*Lodi and Coles Brook Groundwater Regime Screening Level Leaching Test Evaluation*”, Stone & Webster, August 1999-December 2000, Principal Investigator.
\$98,000

–“*Use of Dredged Materials as Fill in Transportation Related Projects*”, Port Authority of New York and New Jersey (PANYNJ) and New Jersey Department of Transportation (NJDOT), September 1998-99, Principal Investigator.
\$117,000

–“*Solidification/Stabilization of Organic Contaminated Soils and Sludges*”, Hazardous Substances Management Research Center (HSMRC), 1996-98, Principal Investigator.

\$112,723

–“*Field Pilot Demonstration of Enhanced Sand Filtration for Arsenic Removal*”, Hazardous Substances Management Research Center (HSMRC), 1996-97, Principal Investigator.
\$71,983

–“*Geoenvironmental Engineering Equipment*”, W. M. Keck Foundation, July 1994, Principal Investigator.
\$150,000

–“*Removal of Arsenic by Adsorptive Filtration*”, Hazardous Substances Management Research Center (HSMRC), 1994-96, Principal Investigator.
\$113,000

–“*Stabilization and Reuse of Heavy Metal Contaminated Soil by Means of Quicklime-Sulfate Salt Treatment*”, US Dept. of Energy (DOE), 1992, Principal Investigator.

\$1,005,000

–“*Experimental and Analytical Studies of Leaching of Pentachlorophenol from Treated Wood in Soils*”, Hazardous Substances Management Research Center (HSMRC), 1992, Co-Investigator.
\$535,000

–“*Prediction of L-NAPL Residual Saturation based on Grain Size Distribution and Clay Type and Content*”, Hazardous Substances Management Research Center (HSMRC), 1991-92, Co-Principal Investigator with Dr. Korfiatis. \$70,000

TEACHING

Courses taught include: *Introduction to Engineering, Hazardous Waste Management, Principles of Ecology and Environmental Chemistry, Environmental Impact Assessment, Groundwater, Soil Behavior and its Role in Environmental Applications, Geoenvironmental Engineering, etc.*

Following is a table where all the courses taught both at Stevens and NTUA are listed. While at Stevens my course load was variable over time, at NTUA I teach the same set of courses every year thus far.

Stevens Undergraduate Courses	Stevens Graduate Courses	NTUA Undergraduate Courses	NTUA Graduate Courses
Introduction to Engineering	Soil Behavior and its Role in Environmental Applications	Groundwater	Hazardous Waste Management
Geoenvironmental Engineering	Groundwater Hydrology and	Environmental Impact Assessment	Environmental Impact Assessment of

	Pollution		Projects
Groundwater Engineering	Environmental Geotechnology	Principles of Ecology and Environmental Chemistry	Environmental Management Methodologies for Mountainous Regions
	Soil and Groundwater Remediation Technologies	Hydraulic Structures-Dams	Advanced Environmental Management
	Solid Waste Management and Resource Recovery		
	Special Problems in Waste Management		
	Advanced Problems in Geoenvironmental Engineering		
	Research Applications in Soil Remediation		

STUDENT ADVISING AND SUPERVISION

Over the years I have advised and/or supervised students under all academic levels, ie., incoming freshmen, undergraduate, masters and Ph.D. thesis and student clubs and fraternities. Specifically, while at Stevens I have supervised 13 undergraduate students in their senior design projects, 25 student graduate (MS) Theses and 9 Ph.D. Theses. While at NTUA I have supervised or am currently supervising 4 undergraduates in their Diploma Theses, 4 graduate (MS) Theses and 2 Ph.D. Theses. Moreover, while at NTUA I have served as the permanent member in all undergraduate Diploma Theses during 2011-2013 conducted in our Department.

IV. AWARDS

- 1985 Elected as a member of **Tau Beta Pi** Engineering Honor Society.
- 1985-86 **Halvorsen Award** for academic excellence.
- 1986-87 **Chi Psi Centennial** scholarship for integrity and academic excellence.
- 1987 First recipient of the **Sidney F. Borg Award** for the best graduating civil engineering senior, after professor Borg, the Tau Beta Pi regional chief advisor.
- 1992 **Outstanding Young Men of America** nomination for outstanding contribution to both research and academic activities.
- 1993 Elected as a member of **The New York Academy of Sciences**.
- 1995 Recipient of the Stevens Alumni Association **Outstanding Teacher Award** for excellence in teaching.
- 1996 Listed in the **Who's Who in Science and Engineering**.
- 1998 Recipient of the Graduating Class of 1998 **Outstanding Professor Award** for

	excellence in teaching and advising, 1998.
2001	Recipient of the Stevens Alumni Association Outstanding Teacher Award for excellence in teaching.
2002	Listed in the Who's Who in Engineering Education .
2010	Recipient of the Outstanding Contribution Award from the Municipality of Komotini for my targeted work, overall assistance and valuable contributions in the development of a better life environment for the city and region.
2013	My first NTUA undergraduate student advisee, Mr. Konstantinos Tettas was awarded the ECOPOLIS 2013 Undergraduate Diploma Thesis Award for our work on «Geogenic Chromium in Greek Groundwaters with an emphasis on the Asopos River basin».
2013- present	Member of the National Water Advisory Board of Greece.

V. SELECTED INVITED TALKS

1. Dermatas, D., *“Sustainable Development and the Role of Environmental Geotechnics”*, 1st Kyoto Conference on “International Cooperation to Integrate Diverse Environmental Studies in View of Future Global Civilization— An experimental dialogue between the modern sciences and the humanities”, Kyoto, Japan, September 30, 2003, **Invited lecture**.
2. Dermatas D., *“Stabilization/Solidification Technologies for Hazardous Waste Treatment: Advanced Material Characterization of Treated Waste”*, Symposium on Advanced Material Characterization, Department of Civil and Materials Engineering, University of Illinois at Chicago, March 16, 2004, **Keynote Speaker**.
3. Dermatas D., *“Geotechnical Properties of Treated Dredge Sediment Waste: Implications on Reuse and Long Term Stability”*, ENGEO Inc., San Ramon, CA, April 9, 2004, **Invited lecture**.
4. Dermatas D., *“Use Novel Substitutes for Pb in Munitions: Solving the Pb problem or Creating an Emerging Contaminant Problem Instead?”*, WFSA 1st International Symposium on Lead in Ammunition; Sports Shooting and the Environment, World Federation on The Future of Sport Shooting Activities (WFSA), Rome, Italy, September 10 2004, **Invited lecture**.
5. Dermatas D., *“An evaluation of pozzolanic Pb immobilization mechanisms in S/S treated firing range soils”*, International Congress on Stabilisation/Solidification Treatment and Remediation, Cambridge, UK, April 13, 2005, **Invited lecture**.
6. Dermatas D., *“State-of-the-art Geoenvironmental Site Characterization: A Case Study of Pb Speciation versus Release in Army Firing Range Soils and its Implications on Remediation and Maintenance Options”*, Annual American Society of Civil Engineers (ASCE) Geotechnical Conference, University of Missouri, Kansas City, MO, April 9, 2005, **Keynote Speaker**.
7. Δερματάς Δ. *“Physical Education and Environmental Sustainability”*, FORUM με θέμα «Ο εκπαιδευτικός και οι προκλήσεις του μέλλοντος», Ελληνική Ακαδημία Φυσικής Αγωγής, Χαλκιδική, 28 Μαΐου 2005, **Keynote Speaker**.
8. Dermatas D., *“Pb Particle Size and its Association with Firing Conditions and Range Maintenance: Implications for Treatment”*, International Symposium on Soil and Groundwater Environment, Korean Society of Soil and Groundwater Environment, Seoul, Korea, October 28, 2005, **Keynote Speaker**. (http://www.kossge.or.kr/soil/10th_sym/invited.html)
9. Dermatas D., *“A Critical Review of State-of-the-art Treatment Technologies for Chromite Ore Processing Residue”*, Novel Environmental Technologies Forum, Environmental Engineering Division, College of Engineering, Chosun University, Gwangju, Korea, October 31, 2005, **Keynote Speaker**.

10. Dermatas D., *“Environmental Sustainability of S/S Treatment Technology Applications; Long Term Stability of Treated Wastes”*, Board of Science Advisors Meeting, Gwangju Institute of Science and Technology, Gwangju, Korea, November 1, 2005, **Keynote Speaker**.
11. Dermatas D., *“Recent Advances in Heavy Metal Immobilization Environmental Technologies”*, Division of Applied Bioengineering,, Dongseo University, Pusan, Korea, November 2, 2005, **Keynote Speaker**.
12. Dermatas D., *“Use of Smart Additives in the Treatment of Heavy Metal Wastes; Regulatory Implications”*, Bavarian Environmental Agency, Augsburg, Germany, January 10, 2006, **Invited lecture**.
13. Dermatas D., *“Phosphate Application to Firing Range Soils for Pb Immobilization: The Unclear Role of Phosphate”*, 5th International Congress on Environmental Geotechnics, Cardiff, Wales, UK, June 29, 2006, **Invited lecture**
14. Dermatas D., *“Overview of Solid Waste Management on Eastern Macedonia and Thrace Region: Selected Case Studies”*, 3rd Annual Conference of the Network of Eastern External Border Regions: Regional Actions for Sustainable Development”, Alexandroupolis, Greece 26 September 2008, **Keynote Speaker**
15. Dermatas, D. *‘Heavy Metal Immobilization Mechanisms in the Geoenvironment’*, 100th KSABC International Symposium and Annual Meeting, Jeju island, S. Korea, October 20, 2011, **Invited lecture**
16. Dermatas, D. *‘Nanostructured materials for advanced remediation processes’*, NINE 2016, International Conference on Nanotechnology Based Innovative Applications for the Environment, Rome, Italy, March 20-23, 2016, **Keynote Lecture**

VI. SELECTED PUBLICATIONS (as of May 10 2016: 2253 citations with h-index=24, i10-index=40, source=Google Scholar ‘Dermatas, D.’ / 1498 citations with h-index=19, source=Scopus ‘Dermatas, D.’)

1) Published Books/Chapters

1. Dermatas D. and Panagiotakis I. (2012), *‘Remediation of Contaminated Soil’*, In: Meyers RA (ed) *Encyclopedia of Sustainability Science and Technology*, Springer, pp 2430-2454.
2. Dermatas D. (1995), *“Stabilization and Reuse of Heavy Metal Contaminated Soils”*, *NTIS DE-96 (60)*, National Technical Information Service Press, Springfield, VA, Aug. 1995, 218 pages. (http://www.osti.gov/bridge/product.biblio.jsp?osti_id=201739)
3. Dermatas D., Korfiatis G. P. and Demetracopoulos A. C. (1992), *“Restoration and Protection of the Environment in the 90’s”*, Center for Environmental Engineering Publications, Stevens Press, Aug. 1992, 380 pages, Hoboken, NJ, USA.
4. Dermatas D., Christodoulatos C. and Vaccari D. (1991), *“Physicochemical Processes for Environmental Control”*, Center for Environmental Engineering Publications, Stevens Press, 144 pages, Dec. 1991, Hoboken, NJ, USA.

2) Published articles

a. Thesis

1. Dermatas, D. (1987), "**Flow Characteristics of Landfill Leachate Collection Systems and Liners**", *Bachelor of Engineering Thesis*, submitted to the faculty of the Stevens Institute of Technology, Hoboken, New Jersey, May 1987.
2. Dermatas, D. (1991), "**An Experimental Study to Elucidate and Eliminate Ettringite-Induced Swelling in Lime-Stabilized Sulfate-Bearing Clayey Soils**", *Ph. D Thesis*, submitted to the faculty of the University of California at Berkeley, Berkeley, California, March 1991.

b. Journal Articles (Refereed)

3. Mitchell, J. K. and Dermatas, D. (1992), "**Clay Soil Heave Caused by Lime-Sulfate Reactions**", *Innovations in Uses for Lime, ASTM STP 1135*, American Society for Testing and Materials (ASTM), Philadelphia, PA, 1992, pp. 41-64.
4. Dermatas, D. and Meng, X. (1995), "**Leachability Study of Cr Contaminated Soils to Assess the Long-Term Effectiveness of Remediation Technologies**", *Geoenvironment*, No. 46, 1995, ASCE, New York, NY, pp. 449-462.
5. Dermatas, D. and Meng, X. (1995), "**A Leaching Protocol to Evaluate Flyash Reuse Potential**", *Innovative Technologies for Soil Remediation and Hazardous Waste Management*, 1995, ASCE, New York, NY, pp. 694-701.
6. Dermatas, D. (1995), "**Ettringite-Induced Swelling in Soils: State-of-the-art**", *Applied Mechanics Review*, Volume 48, Number 10, October 1995, pp 659-673.
7. Dermatas, D. and Meng, X. (1996), "**Stabilization/Solidification (S/S) of Heavy Metal Contaminated Soils by Means of a Quicklime-Based Treatment Approach**", *Stabilization and Solidification of Hazardous, Radioactive, and Mixed Wastes, ASTM STP 1240*, American Society for Testing and Materials (ASTM), Philadelphia, PA, 1996, pp. 499-513.
8. Meng, X., Hua, Z., Dermatas, D. and Wang, W. (1998), "**Immobilization of Mercury (II) in Contaminated Soils with Used Tire Rubber**", *Journal of Hazardous Materials*, Elsevier, No. 57, Issues 1-3, January 1998, Pages 231-241.
9. Mirabito, M., Dermatas, D. and Jancin, M. (2001), "**Characterization and Grouting Beneath an Impending Landfill Cap**", *Geotechnical and Environmental Applications of Karst Geology and Hydrology*, Balkema Publishers, Lisse, Netherlands, September 2001, pp. 297-306.
10. Dermatas, D. and Dadachov, M. (2003), "**Rietveld Quantification of Montmorillonites in Lead-Contaminated Soils**", *Applied Clay Science*, Elsevier, Vol. 23/1-4, pp 245-255, 2003.
11. Dermatas D. and Meng X. (2003), "**Utilization of Fly Ash for Stabilization/Solidification of Heavy Metal Contaminated Soils**", *Engineering Geology*, Elsevier, Vol. 70/3-4, pp 377-394, 2003. (Elsevier lists this as the 3rd most requested article for April 2004 thru March 2005 (<http://www1.elsevier.com/homepage/sad/downloads/00137952.html>). It presently is the 17th most requested journal article, (http://top25.sciencedirect.com/index.php?subject_area=9&journal_id=00137952).
12. Dermatas D., Dutko P., Balorda J. and Moon D. H. (2003), "**Index Properties, Compaction, and Unconfined Compressive Strength of Cement Treated Dredged Sediments**", *Beneficial Use of Recycled Materials in Transportation Applications*, Air & Waste Management Association, 2003, pp. 617-627.
13. Dermatas D., Dutko P., Moon D. H. and Balorda-Barone J. (2003), "**Geotechnical Properties of Cement Treated Dredged Sediment to be used as Transportation Fill**", *Dredging 02: Key*

Technologies for Global Prosperity, ASCE, 2003, pp. 1097-1110.

14. Dermatas D., Dadachov M., Mirabito M. and Meng X. (2003), "Strength Development of Stabilized/Solidified Organic Waste and Optimum Treatment Design", *Journal of the Air & Waste Management Association*, 53: 1363-1372, November 2003.
15. Dermatas D., Dutko P., Balorda J. and Moon D. H. (2003), "Evaluation of Engineering Properties of Cement Treated Hudson River Dredged Sediments For Reuse as Fill Material", *Journal of Marine Environmental Engineering*, OCP Science, Vol. 7, pp. 101-123, 2003.
16. Dermatas, D., Braidia, W., Christodoulatos, C, Strigul, N., Panikov, N., Los, M. and Larson, S. (2004), "Solubility, Sorption And Soil Respiration Effects Of Tungsten And Tungsten Alloys", *Environmental Forensics*, Association for Environmental Health and Sciences (AEHS), Taylor and Francis, Vol. 5, No. 1, pp. 5-13, March 2004.
17. Dermatas, D. and Meng, X. (2004), "Removal of As, Cr and Cd by Adsorptive Filtration", *Global Nest (Environmental Science and Technology): the International Journal*, Vol. 6, No. 1, pp.73-80, March 2004.
18. Moon, D.H., Dermatas, D., Menounou, N. (2004), "Arsenic Immobilization by Calcium-Arsenic Precipitates in Lime Treated Soils", the *Science of the Total Environment*, Elsevier, Vol. 330/ 1-3, pp. 171-185, September 2004.
19. Dermatas, D., Moon, D.H., Menounou, N., Meng, X. and Hires, R. (2004), "An Evaluation of Arsenic Release from Monolithic Solids using a Modified Semi-Dynamic Leaching Test", *Journal of Hazardous Material*, Elsevier, Vol. 116/ 1 - 2, pp. 25-38, December 2004.
20. Dermatas, D., Menounou, N., Dutko, P., Dadachov, M., Arienti, P. and Tsaneva, V. (2004), "Lead and Copper Contamination in Small Arms Firing Ranges", *Global Nest: (Environmental Science and Technology): the International Journal*, Vol. 6, No 2, pp 143-150, 2004.
21. Dermatas, D., Dadachov, M., Dutko, P., Menounou, N., Arienti, P. and Shen, G. (2004), "Weathering of Lead in Fort Irwin Firing Range Soils", *Global Nest: the International Journal*, Vol. 6, No 2, pp 171-179, 2004.
22. Strigul N., Koutsospyros A., Arienti P., Christodoulatos C., Dermatas D. and Braidia W. (2005), "Effects of Tungsten on Environmental Systems", *Chemosphere*, Elsevier, Volume 61, Issue 2, October 2005, Pages 248-258.
23. Dermatas D., Bonaparte R., Chrysochoou M. and Moon D. H. (2005), "Chromite Ore Processing Residue (COPR): Hazardous contaminated soil or solid waste?" *Journal of ASTM International*, ASTM, International, Vol. 2, No.10, November/December 2005.
24. Dermatas, D., Menounou, N., Dadachov, M., Dutko, P., Shen, G., Xu, X., Tsaneva, V. (2006), "Lead Leachability in Firing Range Soils", *J. of Environmental Engineering Science*, Mary Ann Liebert, Inc. Publishers, Vol. 23, No. 1, pp. 86-99, February 2006.
25. Dermatas, D., Moon, D.H. (2006), "Chromium leaching and immobilization in treated soils", *J. of Environmental Engineering Science*, Mary Ann Liebert, Inc. Publishers, Vol. 23, No. 1, pp.75-85, February 2006.
26. Zheng G., Dermatas D., Song Z., Shen G., Xu X. (2006), "Transformation of organic carbon and its potential impact on lead weathering in firing range soils", *Chinese Journal of Geochemistry*, Springer, Volume 25, Supplement 1 , pp. 128, March 2006.
27. Xu X., Dermatas D., Grubb D. G., Moon D. H., Jing C. (2006), "Immobilization mechanisms of Pb in firing range soils using Apatite II phosphate", *Chinese Journal of Geochemistry*, Springer, Volume 25, Supplement 1 , pp. 133, March 2006.
28. Chrysochoou M., Dermatas D., Moon D. H., French C, Morris J. and Kaouris M. (2006), "Investigation of barium treatment of Chromite Ore Processing Residue (COPR) ",*Journal of ASTM International*, ASTM, International, Vol. 3, No.4, April 2006.

29. Dermatas D., Menounou N. and Meng X. (2006), "Mechanisms of Pb Immobilization in Treated Soils", *Journal of Land Contamination and Reclamation*, 14 (1), pp. 43-56, 2006.
30. Moon D. H., Dermatas D., Chrysochoou M. and Shen G. (2006), "An Investigation of the Heaving Mechanism Related to Chromite Ore Processing Residue", *Journal of ASTM International*, ASTM, International, Vol. 3, No. 6, June 2006.
31. Dermatas D., Cao X., Tsaneva V., and Shen G. (2006), "Fate and behavior of metal(loid) contaminants in an organic matter-rich shooting range soil: Remediation implications", *Journal of Water, Air and Soil Pollution: Focus*, Springer, (1-2): 145-157, 2006.
32. Kostarelos K., Reale D., Dermatas D., Rao E., Moon D. H. (2006), "Optimum Dose of Lime and Flyash for Treatment of Hexavalent Chromium-Contaminated Soil", *Journal of Water, Air and Soil Pollution: Focus*, Springer, 6(1-2): 175-193, 2006.
33. Dermatas D., Koutsospyros A.D., Christodoulatos C. (2006), "Protection and Restoration of the Environment VII", Editorial, *Journal of Hazardous Materials*, Elsevier, Volume 136, Issue 1, 10 August 2006, Page v.
34. Chrysochoou M. and Dermatas D. (2006), "Evaluation of Ettringite and Hydrocalumite Formation for Heavy Metal Immobilization; Literature Review and Experimental Study", *Journal of Hazardous Materials*, Elsevier, Vol. 136, No. 1, pp 20-33, August 2006.
35. Moon, D.H., Dermatas, D. (2006), "An Evaluation of Lead Leachability from Monolithic Solids under Modified Semi-Dynamic Leaching Conditions", *Engineering Geology*, Elsevier, Vol. 85, No. 1-2, pp. 67-74, May 2006.
36. Koutsospyros A., Braida W., Christodoulatos C., Dermatas D., Strigul N. (2006), "Tungsten: from environmental obscurity to scrutiny", *Journal of Hazardous Materials*, Elsevier, Vol. 136, No. 1, pp 1-19, August 2006.
37. Dermatas D., Shen G., Chrysochoou M., Grubb D. G., Dutko P. (2006), "Pb Speciation versus TCLP Release in Army Firing Range Soils", *Journal of Hazardous Materials*, Elsevier, Vol. 136, No. 1, pp 34-46, August 2006.
38. Ogundipe A., Greenberg B., Braida W., Christodoulatos C., Dermatas D. (2006), "Morphological Characterisation and Spectroscopic Studies of the Corrosion Behaviour of Tungsten Heavy Alloys", *Corrosion Science*, Elsevier, Volume 48, Issue 10, October 2006, Pages 3281-3297.
39. Dermatas D., Chrysochoou M., Moon D.H., Grubb D.G., Wazne M., Christodoulatos C. (2006), "Ettringite-Induced Heave in Chromite Ore Processing Residue (COPR) upon Ferrous Sulfate Treatment", *Environmental Science and Technology*, ACS, Vol. 40, Issue 18, September 15, 2006, pp 5786-5792.
40. Chrysochoou M., Dermatas D. (2007), "Application of the Rietveld Method to Assess Chromium (VI) Speciation in Chromite Ore Processing Residue", *Journal of Hazardous Materials*, Elsevier, Vol. 141, No. 2, pp 370-377, March 15, 2007.
41. Dermatas D., Al-Tabbaa A. (2007), "Stabilisation/solidification treatment and remediation: Advances in S/S for waste and contaminated land", Editorial, *Journal of Hazardous Materials*, Elsevier, Vol. 141, No. 2, pp 353, March 15, 2007.
42. Moon D. H., Dermatas D. (2007), "Arsenic and Lead Release from Fly Ash Stabilized/Solidified Soils Under Modified Semi-Dynamic Leaching Conditions", *Journal of Hazardous Materials*, Elsevier Science, Vol. 141, No. 2, pp 388-394, March 15, 2007.
43. Moon D. H., Wazne M., Dermatas D., Christodoulatos C., Sanchez A.M., Grubb D.G., Chrysochoou M., Kim M.G. (2007), "Long-term treatment issues with chromite ore processing residue (COPR): Cr⁶⁺ reduction and heave", *Journal of Hazardous Materials*, Elsevier, Vol. 143, No. 3, pp 629-635, May 17, 2007.
44. Dermatas D., Chrysochoou M., Pardali S., Grubb D.G. (2007), "Influence of X-Ray Powder

Diffraction (XRPD) sample preparation on contaminated media remediation assessment: Mineralogical evaluation of Chromite Ore Processing Residue (COPR)”, *Journal of Environmental Quality*, Vol. 36, pp 487-497, March-April 2007.

45. Cao X., Dermatas D., Shen G., Xu X. (2005), “Transformation of lead bullets and phosphate-induced lead immobilization in shooting range soils” , *Journal of Hazardous Materials*, Elsevier, accepted May 7, 2005, In Press.

46. Moon D. H., Dermatas D., Chrysochoou M., Sanchez A. M., Wazne M. (2007), “Swelling Related to Ettringite in Chromite Ore Processing Residue”, *Journal of Environmental Geochemistry and Health*, Springer, 29 (4) pp. 289-294.

47. Wazne M., Moon D.H., Billapati S., Jagupilla S., Christodoulatos C., Dermatas D., Chrysochoou M. (2007), “Remediation of Chromite Ore Processing Residue (COPR) Using Ferrous Sulfate and Calcium Polysulfide”, *Geosciences Journal*, Springer, 11 (2) pp. 105-110.

48. Dermatas D., Chrysochoou M. (2007), “Lead Particle Size and its Association with Firing Conditions and Range Maintenance: Implications for Treatment”, *Journal of Environmental Geochemistry and Health*, Springer, 29 (4) pp. 347-355.

49. Chrysochoou M., Dermatas D., Grubb D.G. (2007), “Phosphate Application to Firing Range Soils for Pb Immobilization: The Unclear Role of Phosphate”, *Journal of Hazardous Materials*, Elsevier, Vol. 144, No. 1-2, pp 1-14, June 2007.

50. Braida W., Christodoulatos C., Ogundipe A., Dermatas D., O’Connor G. (2007), “Electrokinetic Treatment of Firing Ranges Containing Tungsten-Contaminated Soils”, *Journal of Hazardous Materials*, Elsevier, Vol. 149, No. 3, pp 562-567, November 2007.

51. Dermatas D., Chrysochoou M., Grubb D. G., Xu X. (2008), “Phosphate treatment of firing range soils: Pb fixation or P release?”, *Journal of Environmental Quality*, 37 (1) pp. 47-56, January 2008.

52. Moon D.H., Dermatas D., Sanchez A. M., Chrysochoou M., Wazne M., Grubb D.G. (2008), “Assessment of brownmillerite and periclase hydration in chromite ore processing residue at elevated temperature” , *Geotechnics of Waste Management and Remediation*, ASCE, Geotechnical Special Publication 177, March 2008, pp 375-382.

53. Dermatas D., Chrysochoou M., Moon D.H., Kaouris M., Morris J., French C. (2008), “Current Knowledge on Heaving Mechanisms of Chromite Ore Processing Residue”, *Geotechnics of Waste Management and Remediation*, ASCE, Geotechnical Special Publication 177, March 2008, pp 391-398.

54. Dermatas D., Chrysochoou M., Moon D.H. (2008), “Geoenvironmental Characterization to Assess Waste Stabilization/Solidification Treatment Performance and Sustainability”, *Geotechnics of Waste Management and Remediation*, ASCE, Geotechnical Special Publication 177, March 2008, pp 660-667.

55. Chrysochoou M., Dermatas D., Moon D.H., Christodoulatos C. (2008), “Reductive treatment of Chromite Ore Processing Residue (COPR): lessons from a field study”, *Geotechnics of Waste Management and Remediation*, ASCE, Geotechnical Special Publication 177, March 2008, pp 748-755.

56. Cao X., Dermatas D., Xu X., Shen G. (2008), “Immobilization of Lead in Shooting Range Soils by Means of Cement, Quicklime, and Phosphate Amendments”, *Environmental Science and Pollution Research International*, 15 (2), pp. 120-127, 2008.

57. Cao X. and Dermatas D. (2008), “Evaluating the Applicability of Regulatory Leaching Tests for Assessing Lead Leachability in Contaminated Shooting Range Soils”, *Environmental Monitoring and Assessment.*, , Kluwer Academic Publishers, 139 (1-3), pp. 1-13, April 2008.

58. Larson S., Dermatas D. (2009), “Tungsten in the Geoenvironment”, *Journal of Land Contamination and Reclamation*, 17 (1), pp. 43-56, 2009, pp. 1-6, 2009.

60. Chrysochoou M., Fakra S.C., Marcus M.A., Moon D.H., Dermatas D. (2009), "Microstructural Analyses of Cr(VI) Speciation In Chromite Ore Processing Residue (COPR)", *Environmental Science and Technology*, ACS, 2009, 43, 5461-5466.
61. Chrysochoou M., Moon D.H., Fakra, S., Marcus M.A., Dermatas D. and Christodoulatos C. (2009), "Use of X-ray Absorption Spectroscopy and diffraction to delineate Cr(VI) speciation in COPR", *Global Nest: the International Journal*, Vol 11, No 3, pp 318-324, 2009.
62. Chrysochoou M., Dermatas D. and Christodoulatos C. (2009), "Experimental studies on coupled treatment of Chromite Ore Processing Residue", *Journal of ASTM International*, ASTM, International, Volume 6, Issue 3, March 2009.
63. Chrysochoou M., Dermatas D., Grubb D.G., Moon D.H. (2010), "Geoenvironmental characterization of Chromite Ore Processing Residue (COPR): Implications for treatment", *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 136 (3), art. no. 007003QGT, pp. 510-521.
64. Puppala A.J., Saride S., Dermatas D., Al-Shamrani M., Chikyala V. (2010), "Forensic Investigations to Evaluate Sulfate-Induced Heave Attack on a Tunnel Shotcrete Liner", *Journal of Materials in Civil Engineering*, ASCE, 22 (9), pp. 914-922.
65. Moon, D. H., Dermatas D., Grubb D.G. (2010), "Release of arsenic (As) and lead (Pb) from quicklime-sulfate stabilized/solidified soils under diffusion-controlled conditions", *Environmental monitoring and assessment*, Kluwer Academic Publishers, 169 (1-4) pp. 259-265, April 2010.
66. Hadjibiros K., Dermatas D., Laspidou C.S. (2011), "Municipal waste management and landfill site selection: Irrationality vs. efficiency", *Global Nest: the International Journal*, Vol 13, No 2, pp 151-162, 2011
67. Zheng G., Xu S., Liang M., Dermatas D., Xu X. (2011), "Transformations of organic carbon and its impact on lead weathering in shooting range soils", *Environmental Earth Sciences*, Springer-Verlag, 64 (8) pp. 2241-2246, 2011.
68. Dermatas D., Vatseris C., Panagiotakis I., Chrysochoou M. (2012), "Potential Contribution of Geogenic Chromium in Groundwater Contamination of a Greek Heavily Industrialized Area", *Chemical Engineering Transactions*, AIDIC, Vol. 28, pp. 217-222, 2012.
69. Xu X., Zheng G., Li S., Takahashi Y., Shen G., Dermatas D. (2014), "A quantitative XANES evaluation of the TCLP applicability in phosphate-induced lead stabilization for firing range soils", *Environmental Earth Sciences*, Springer-Verlag, 73(4), pp. 1641 - 1647, published online 2 July 2014.
70. Moon D. H., Wazne M., Dermatas D., Sanchez A. M., Cheong K. H., Park J-H. (2014), "Evaluation of ettringite-related swelling mechanisms for treated chromite ore processing residue", *Environmental science and pollution research international*. Springer-Verlag, 22 (1) pp. 738 - 744.
71. Mystrioti C., Sparis D., Papasiopi N., Xenidis A., Dermatas D., Chrysochoou M. (2014), "Assessment of Polyphenol Coated Nano Zero Valent Iron for Hexavalent Chromium Removal from Contaminated Waters", *Bulletin of Environmental Contamination and Toxicology*, Springer, 94 (3), pp. 302 - 307.
72. Lortzie, K., Stylianou, M., Dermatas, D., Kostarelos, K. (2015), "Long-term environmental impact at an abandoned gold-silver enrichment plant: A case study in Mitsero, Cyprus", *Journal of Engineering Geology*, Elsevier, Vol. 184, January 04, 2015, Pages 119-125.
73. Mystrioti C., Papasiopi N., Xenidis A., Dermatas D., Chrysochoou M. (2015), "Column study for the evaluation of the transport properties of polyphenol-coated nano iron", *Journal of Hazardous Materials*, Elsevier, Vol. 281, No. 1, pp 64-69, January 8, 2015.

74. Panagiotakis I., Dermatas D., Vatseris C., Chrysochoou M., Papassiopi N., Xenidis A., Vaxevanidou K. (2015), "*Forensic Investigation of a Chromium(VI) Groundwater Plume in Thiva, Greece*", *Journal of Hazardous Materials, Elsevier*, Vol. 281, No. 1, pp 27-34, January 8, 2015.
75. Dermatas D., Mpouras T., Chrysochoou M., Panagiotakis I., Vatseris C., Linardos N., Theologou E., Boboti N., Xenidis A., Papassiopi N., Sakellariou L. (2015), "*Origin and concentration profile of chromium in a Greek aquifer*", *Journal of Hazardous Materials, Elsevier*, Vol. 281, No. 1, pp 35-46, January 8, 2015.
76. Chrysochoou M., Dermatas D. (2015), "*Hexavalent chromium in the geoenvironment - Occurrence and remediation*", Editorial, *Journal of Hazardous Materials, Elsevier*, Vol. 281, No. 1, pp 1, January 8, 2015.
77. Panagiotakis I., Dermatas D. (2015), "*Remediation of Contaminated Sites*", Editorial, *Bulletin of Environmental Contamination and Toxicology, Springer*, 94 (3), pp. 267 - 268.
78. Kostarelos K., Gavriel I., Stylianou M., Zissimos A.M., Morisseau E., Dermatas D. (2015), "*Legacy Soil Contamination at Abandoned Mine Sites: Making a Case for Guidance on Soil Protection*", *Bulletin of Environmental Contamination and Toxicology, Springer*, 94 (3), pp. 269 - 274.
79. Boboti N, Chrysochoou M, Dermatas D. (2015), "*Geochemical Characterization of Greek Ophiolitic Environments Using Statistical Analysis*", *Environ. Process, Springer*, Vol 2, Issue 1, pp. 5-21.
80. Mpouras T., Chyrsochoou M., Dermatas D. (2015), "*Investigation of hexavalent chromium sorption on serpentine soil*", *Geoderma*, Under review.

c. Published Proceedings Full Papers (Refereed)

1. Dermatas, D., "*Stabilization/Solidification of Heavy Metal Contaminated Soils*", *Restoration and Protection of the Environment I*, August 1992, Thessaloniki, Greece, Vol. 1, pp. 340-48.
2. Korfiatis, G. P. and Dermatas, D., "*Retention of Immiscible Fluids in Soils*", *Proc. of the 2nd Greek National Conference on Geotechnical Engineering*, October 1992, Thessaloniki, Greece, Vol. 2, pp. 339-45.
3. Korfiatis, G. P., Talimcioglu, M. and Dermatas, D., "*Retardation of Contaminant Transport in Soils*", *Proc. of the 2nd Greek National Conference on Geotechnical Engineering*, October 1992, Thessaloniki, Greece, Vol. 2, pp. 331-38.
4. Dermatas, D. and Mitchell, J. K., "*Barium Salt Pretreatment in Lime Stabilization of Sulfate Soils*", *Proc. of the 2nd Greek National Conference on Geotechnical Engineering*, October 1992, Thessaloniki, Greece, Vol. 2, pp. 315-22.
5. Dermatas, D., Korfiatis, G. P. and Kostarellos, D., "*Soil Column Study of DNAPL Recovery using Surfactant Flushing*", *Proc. of the 1993 National Conference on Environmental Engineering*, July, 1993, Montreal, Canada, Vol. 2, pp. 1411-18.
6. Dermatas, D., "*Stabilization/Solidification of Lead Contaminated Soils: I. Batch and Monolith Extraction Leaching*", *Restoration and Protection of the Environment II*, Patra University Press, 1994, Patra, Greece, pp. 156-164.
7. Dermatas, D., "*Stabilization/Solidification of Lead Contaminated Soils: II Flow-Through Column Leaching*", *Restoration and Protection of the Environment II*, Patra University Press, 1994, Patra, Greece, pp. 165-172.

8. Dermatas, D. and Meng, X., "*Stabilization/Solidification of Chromium Contaminated Soils*", *Restoration and Protection of the Environment II*, Patra University Press, 1994, Patra, Greece, pp. 173-180.
9. Dermatas, D. and Meng, X., "*Removal of Arsenic Down to Trace Levels by Adsorptive Filtration*", *Proc. of the 2nd IAWQ Specialized Conference on Pretreatment of Industrial Wastewaters*, October 1996, Athens, Greece, pp. 191-198.
10. Dermatas, D. and Tsatsos, N., "*Pozzolan Reaction Products in Quicklime-Treated Heavy Metal Contaminated Clayey Mixes*", *3rd Greek National Conference on Geotechnical Engineering*, Vol. 2, pp. 311-318, March 1997, Patra, Greece.
11. Tsatsos, N. and Dermatas, D., "*Correlation between Mineralogy and Swelling of Lime-Treated Contaminated Soil Mixes*", *Environmental Geotechnics*, Vol. 2, pp. 473-478, 1998 Balkema, Rotterdam, ISBN 90-5809-006-x.
12. Dermatas D. and Moon D. H., "*Leachability of Heavy Metals from Monolithic Solids in Diffusion-Controlled Environments*", *Restoration and Protection of the Environment V*, July 1-4, 2000, Thasos, Greece, Vol. I, pp. 107-114.
13. Dermatas D. and Moon D. H., "*Engineering Properties of Cement Treated Dredged Sediment*", *Restoration and Protection of the Environment V*, July 1-4, 2000, Thasos, Greece, Vol. I, pp. 29-36.
14. Dermatas D., Meng X. and Moon D. H., "*Predicting Strength Development of Stabilized Organic Wastes Based on X-Ray Diffraction*", *Restoration and Protection of the Environment V*, July 1-4, 2000, Thasos, Greece, Vol. I, pp. 115-126.
15. Dermatas D. and Menounou N., "*Lead Contamination in Small Arms Firing Ranges*", *Proc. of 6th International Conference of Restoration and Protection of the Environment*, July 2002, Skiathos Island, Greece, 847-854.
16. Braida W., Christodoulatos C., Dermatas D., Korfiatis G.P., Panikov N., and Strigul N., "*Environmental effects of Tungsten based Munition*", *Proc. of 6th International Conference of Restoration and Protection of the Environment*, July 2002, Skiathos Island, Greece, 855-862.
17. Dermatas, D. and Meng, X., "*Removal of Heavy Metals by Adsorptive Filtration*", *Proc. 8th Conference on Environmental Science and Technology*, September 2003, Lemnos, Greece, pp. 128-135.
18. Dermatas, D., Menounou, N., Dutko, P., Dadachov, M., Arienti, P. and Tsaneva, V., "*Lead and Copper Contamination in Small Arms Firing Ranges*", *Proc. 8th Conference on Environmental Science and Technology*, September 2003, Lemnos, Greece, pp.134-141.
19. Dermatas, D., Dadachov, M., Dutko, P., Menounou, N., Arienti, P. and Shen, G., "*Weathering of Lead in Fort Irwin Firing Range Soils*", *Proc. 8th Conference on Environmental Science and Technology*, September 2003, Lemnos, Greece, pp. 120-127.
20. Dermatas, D., Dutko, P. and Dadachov, M., "*Geoenvironmental Site Characterization: Lead Contaminated Firing Range Case Studies*", *Proc. 5th International Conference on Case Studies in Geotechnical Engineering*, New York, NY, April 2004, e-proceedings with no page numbers.
21. Dermatas, D., Dano, C., Yang, D., Shah, D., Rajaram, V., Perlea, M., "*Case Histories of Soil Property Improvement, Use of Lightweight Materials, and Geotechnical and Hydrological Management and Remediation of Solid, Hazardous and Low-Level Radioactive Wastes, including Liner Cover Systems and Landfill Closure for Brownfield Development*", General Report -Session 8, *Proc. 5th International Conference on Case Studies in Geotechnical Engineering*, New York, NY, April 2004, e-proceedings with no page numbers.
22. Moon, D.H. and Dermatas, D., "*An Evaluation of Lead Leachability from Monolithic Solids under Modified Semi-Dynamic Leaching Conditions*", *Proc. 4th BGA Geoenvironmental*

Engineering Conference, Geoenvironmental Engineering: Integrated Management of Groundwater and Contaminated Land, Thomas Telford Publishing, June 2004, Stratford-on-Avon, UK, pp. 535-543.

23. Menounou, N. and Dermatas, D., "Lead Transformation in the Environment of Small-Arms Firing Ranges", *Proc. 4th BGA Geoenvironmental Engineering Conference, Geoenvironmental Engineering: Integrated Management of Groundwater and Contaminated Land*, Thomas Telford Publishing, June 2004, Stratford-on-Avon, UK, pp. 101-108.

24. Chrysochoou M. and Dermatas, D., "Application of ettringite on heavy-metal immobilization: a literature review", *Proc. of the International Conference: Protection and Restoration of the Environment VII*, Mykonos, Greece, July 2004, e-proceedings with no page numbers.

25. Braida, W., Christodoulatos, C., Dermatas, D., Strigul, N., "Munitions grade tungsten: environmental behavior", *Proc. of the International Conference: Protection and Restoration of the Environment VII*, Mykonos, Greece, July 2004, e-proceedings with no page numbers.

26. Menounou, N., Dermatas, D., Dadachov, M., Dutko, P., "Chemical behavior of lead in army firing ranges", *Proc. of the International Conference: Protection and Restoration of the Environment VII*, Mykonos, Greece, July 2004, e-proceedings with no page numbers.

27. Bari, P. and Dermatas, D., "Fort Irwin's commitment to the environment", *Proc. of the International Conference: Protection and Restoration of the Environment VII*, Mykonos, Greece, July 2004, e-proceedings with no page numbers.

28. Chrysochoou M., Dermatas D., Moon D.H., and Wazne M., " Role and Properties of Calcium Aluminum Oxide Hydrates in Chromium Waste Stabilization", *Proc. 1st International Conference on Environmental Science and Technology*, American Academy of Sciences, New Orleans, Louisiana, Jan. 23-26, 2005, pp. 429.

29. Cao X., Dermatas D., Shen G., and Ma L., "Lead Contamination and Immobilization in Shooting Range Soils", *Proc. 1st International Conference on Environmental Science and Technology*, American Academy of Sciences, New Orleans, Louisiana, Jan. 23-26, 2005, pp. 18.

30. Dermatas D., Xu X., Cao X., Shen G., Menounou N., Arienti P., and Delaney J. S. , "An evaluation of pozzolanic Pb immobilization mechanisms in firing range soils", *Stabilization/Solidification Treatment and Remediation: Advances in S/S for Waste and Contaminated Land*, Taylor & Francis, Balkema, ISBN 04 1537 4618, pp. 45-56, April 2005.

31. Dermatas D. and Chrysochoou M., "The Rietveld method as a tool for assessing heavy metal immobilization in S/S treatment investigations", *Stabilization/Solidification Treatment and Remediation: Advances in S/S for Waste and Contaminated Land*, Taylor & Francis, Balkema, ISBN 04 1537 4618, pp. 97-106, April 2005.

32. Cao X., Dermatas D. and Shen G., "Lead contamination and immobilization at shooting range sites", *Stabilization/Solidification Treatment and Remediation: Advances in S/S for Waste and Contaminated Land*, Taylor & Francis, Balkema, ISBN 04 1537 4618, pp. 315-321, April 2005.

33. Moon D. H.. and Dermatas D., "Chromium (Cr³⁺) leachability from monolithic solids under modified semi-dynamic conditions", *Stabilization/Solidification Treatment and Remediation: Advances in S/S for Waste and Contaminated Land*, Taylor & Francis, Balkema, ISBN 04 1537 4618, pp. 171-179, April 2005.

34. Lazarte C. A., Bonaparte R., Pendleton C. H., Dermatas D., French C., Kaouris M., Briggs R. and Myers M., "Trench testing and characterization of Chromite Ore Processing Residue (COPR) at Dundalk Marine Terminal Area 1800", *Proc. of the 8th Battelle In-situ and On-site Bioremediation International Symposium*, Baltimore, Maryland, June 6-9, 2005, e-proceedings with no page numbers.

35. Moon D. H., Dutko P., Dermatas D., Chrysochoou M., Christodoulatos C., Kaouris M. and

- Morris J., "Ettringite-induced laboratory swelling in Chromite Ore Processing Residue (COPR)", *Proc. of the 8th Battelle In-situ and On-site Bioremediation International Symposium*, Baltimore, Maryland, June 6-9, 2005, e-proceedings with no page numbers.
36. Moon D. H., Chrysochoou M., Dermatas D., Christodoulatos C., Kaouris M. and Morris J., "Investigation of ettringite formation in Chromite Ore Processing Residue (COPR)", *Proc. of the 8th Battelle In-situ and On-site Bioremediation International Symposium*, Baltimore, Maryland, June 6-9, 2005, e-proceedings with no page numbers.
37. Chrysochoou M., Moon D. H., Dermatas D., Wazne M., Christodoulatos C., Meng X., Kaouris M., Morris J., French C. and Sass B., "Mineralogical Analysis of Chromite Ore Processing Residue (COPR) by X-Ray Powder Diffraction (XRPD)", *Proc. of the 8th Battelle In-situ and On-site Bioremediation International Symposium*, Baltimore, Maryland, June 6-9, 2005, e-proceedings with no page numbers.
38. Dermatas D., Chrysochoou M., Moon D. H., Pardali S., Christodoulatos C., Lazarte C. A., Pendleton C. H., Bonaparte R., Briggs R., Myers M., French C., Morris J. and Kaouris M., "Mineralogical Characterization of Chromite Ore Processing Residue (COPR) at Dundalk Marine Terminal Area 1800", *Proc. of the 8th Battelle In-situ and On-site Bioremediation International Symposium*, Baltimore, Maryland, June 6-9, 2005, e-proceedings with no page numbers.
39. Wazne M., Papazoglou P., Papastavrou M., Meng X., Dermatas D., Christodoulatos C., Kaouris M., Morris J. and Jackson R. L., "Remediation of Chromite Ore Processing Residue (COPR) by chemical reductants", *Proc. of the 8th Battelle In-situ and On-site Bioremediation International Symposium*, Baltimore, Maryland, June 6-9, 2005, e-proceedings with no page numbers.
40. Wazne M., Papastavrou M., Papazoglou P., Meng X., Dermatas D., Christodoulatos C., Moon D. H., Kaouris M., Morris J. and Jackson R. L., "Leaching behavior of Chromite Ore Processing Residue (COPR)", *Proc. of the 8th Battelle In-situ and On-site Bioremediation International Symposium*, Baltimore, Maryland, June 6-9, 2005, e-proceedings with no page numbers.
41. Chrysochoou M., Dermatas D., "Comparison of Geochemical Modeling in Chromite Ore Processing Residue Using Minteq and EQ3/6 Software", *Proc. 9th Conference on Environmental Science and Technology*, Rhodes, Greece, September 2005, pp. 232-237.
42. Moon D.H., Dermatas D., Grubb D.G., "The effectiveness of quicklime-based stabilization/solidification (S/S) on lead (Pb) contaminated soils", *Proc. of ISSMGE: 5th International Congress on Environmental Geotechnics*, Cardiff, Wales, UK, June 2006 pp. 221-228.
43. Moon D.H., Dermatas D., Chrysochoou M., Sanchez A.M., Wazne M., Grubb D.G., "Sulfate induced heaving in chromite ore processing residue" *Proc. of ISSMGE: 5th International Congress on Environmental Geotechnics*, Cardiff, Wales, UK, June 2006, pp.1479-1486.
44. Moon D.H., Dermatas D., Chrysochoou M., Grubb D.G., "An Investigation of the Phase Transformation of Brownmillerite in Chromite Ore Processing Residue, *Proc. of the International Conference: Protection and Restoration of the Environment VIII*, Chania, Greece, July 2006, pp. 203.
45. Dermatas D., Sanchez A.M., Moon D. H., Chrysochoou M., Christodoulatos C., Grubb D.G., "Brownmillerite Hydration in Chromite Ore Processing Residue (COPR) at Elevated Temperatures", *Proc. of the International Conference: Protection and Restoration of the Environment VIII*, Chania, Greece, July 2006, pp. 205.
46. Chrysochoou M., Dermatas D., Pardali S., "Effect of Mineralogy on the Leaching Characteristics of Solid Waste, *Proc. of the International Conference: Protection and Restoration of the Environment VIII*, Chania, Greece, July 2006, pp. 25.
47. Dermatas D., Pardali S., Chrysochoou M., Moon D. H., Grubb D. G., "The Role of XRPD

Analyses in the Investigation of COPR Mineralogy during Treatment: A Case Study”, *International Conference: Protection and Restoration of the Environment VIII*, Chania, Greece, July 2006, pp. 277.

48. Braida W., Christodoulatos C., Ogundipe A., Dermatas D., O’Connor G., “Electrokinetic Treatment of Firing Ranges Containing Tungsten-Contaminated Soils, *Proc. of the International Conference: Protection and Restoration of the Environment VIII*, Chania, Greece, July 2006, pp. 77.

49. Moon, D.H., Dermatas, D., Sanchez A.M., Wazne, M., Chrysochoou M., Christodoulatos C., Grubb D.G., Kim, M.G., “Investigation of heave and remediation of chromite ore processing residue (COPR) materials using ferrous sulfate”, *Proc. of the Second International Conference on Environmental Science and Technology*, American Academy of Science, Houston, Texas, USA, August 19-22, 2006, pp. 239.

50. Dermatas D., Chrysochoou M., “A critical review of Pb-contaminated firing range soil remediation by phosphate addition: treatment performance and environmental sustainability”, *Proc. 10th Conference on Environmental Science and Technology*, Kos, Greece, September 2007, pp. A-295-302.

51. Dermatas D., Grubb D.G., Chrysochoou M., “Comparison of the TCLP and Sequential Extraction Test for evaluating lead leachability in shooting range soils”, *Proc. 10th Conference on Environmental Science and Technology*, Kos, Greece, September 2007, A-303-310.

52. Hadjibiros K., Dermatas D., “Irrationality versus efficiency in municipal solid waste management schemes”, *Proc. 10th Conference on Environmental Science and Technology*, Kos, Greece, September 2007, A-448-456.

53. Chrysochoou M., Moon D.H., Fakra S., Marcus M., Dermatas D., Christodoulatos C., “Use of Micro X-Ray Absorption Spectroscopy and Diffraction to Delineate Cr(VI) Speciation in COPR”, *Proc. of the International Conference: Protection and Restoration of the Environment IX*, Kefalonia, Greece, July 2008, pp. 6.

54. Moon D.H., Grubb D.G., Reilly T., Chrysochoou M., Dermatas D., O’Connor G., “Leaching Behavior of Lead (Pb) and Tungsten (W) Contaminated Soils Stabilized with Type I/II Portland Cement, Silica Fume Cement and Cement Kiln Dust”, *Proc. of the International Conference: Protection and Restoration of the Environment IX*, Kefalonia, Greece, July 2008, pp. 16.

55. Dermatas D., Vatseris C., Papadopoulos S., Widmard R., Tsakmakis Y, Lazoglou K., “MSW amount, composition and contaminant loads for the Region of Eastern Macedonia-Thrace, Greece”, *WasteEng08: 2nd International Conference on Engineering for Waste Valorisation*, Patras, Greece, June, 2008.

56. Dermatas D., Vatseris C., Zisekas S., Lazoglou K., Filippeli S., Kiatipis C., Papadopoulos S., Xanthopoulou V., Passopoulou A., “Field study to define waste management options for the Kirki abandoned mine in the Evros prefecture, Greece”, *WasteEng08: 2nd International Conference on Engineering for Waste Valorisation*, Patras, Greece, June, 2008.

57. Kostarelou K., Wade J., Taiwo J., Yoon S., Dermatas D., “Flow behavior within Fractured Media”, *1st Hazardous waste Management Conference*, Chania, Greece, October 2008.

58. Chrysochoou M., Dermatas D., “Investigation of Cr(VI) Speciation and Reduction in Chromite Ore Processing Residue (COPR), Using Micro -XANES, -XRF and -XRD”, *Proc. 11th Conference on Environmental Science and Technology*, Chania, Crete, Greece, September 2009, A-172-179.

59. Markidis I., Tsagas F., Grigoropoulos N., Tsakmakis I., Dermatas D., “Optimization Model for the Waste Transportation Network in the Region of Eastern Macedonia-Thrace in Greece”, *Proc. 11th Conference on Environmental Science and Technology*, Chania, Crete, Greece, September 2009, A-854-862.

60. Tsagas F., Petalas A., Markidis I., Tsakmakis I., Grigoropoulos N., Dermatas D.,

“Baling-Wrapping Technology and MSW Management: Insights from a Pilot Case Study in Alexandroupolis, Greece”, *Proc. 11th Conference on Environmental Science and Technology*, Chania, Crete, Greece, September 2009, B-953-960.

61. Dermatas D., Bonaparte R., Chrysochoou M., Moon D. (2010), “Υπόλειμμα επεξεργασίας χρωμίτη (COPR): Επικίνδυνο ρυπασμένο έδαφος η επικίνδυνο απόβλητο;”, *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, Greece, September 29-October 1 2010, Vol. 3., pp 149-156 (In Greek).

62. Dermatas D., Chrysochoou M., Moon D. (2010), ‘Μηχανισμοί διόγκωσης και επεξεργασίας υπολειμμάτων του απόβλητου χρωμίτη’, *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, Greece, September 29-October 1 2010, Vol. 3., pp 157-162 (In Greek).

63. Dermatas D., Chrysochoou M., Pardali S., Grubb D.G. (2010), ‘Επίδραση προετοιμασίας δείγματος περιθλάσης ακτίνων Χ στην ποσοτική ορυκτολογία: Συνέπειες επεξεργασίας χρωμικών αποβλήτων’, *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, Greece, September 29-October 1 2010, Vol. 3., pp 163-170 (In Greek).

64. Dermatas D., Chrysochoou M., Moon D. (2010), ‘Γεωπεριβαλλοντικός χαρακτηρισμός για την εκτίμηση της απόδοσης και βιωσιμότητας της σταθεροποίησης/στερεοποίησης αποβλήτων’, *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, Greece, September 29-October 1 2010, Vol. 3., pp 171-176 (In Greek).

65. Dermatas D., Chrysochoou M. (2010), ‘Συσχέτιση του μεγέθους σωματιδίων μολύβδου με τοπικές και λειτουργικές συνθήκες σε πεδία βολής’, *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, Greece, September 29-October 1 2010, Vol. 3., pp 177-184 (In Greek).

66. Dermatas D., Chrysochoou M. (2010), Grubb D.G., Xu X., ‘Επεξεργασία εδαφών πεδίων βολής με φωσφορικά άλατα: Σταθεροποίηση του μολύβδου η απελευθέρωση του φωσφόρου;’, *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, Greece, September 29-October 1 2010, Vol. 3., pp 185-192 (In Greek).

67. Markidis I., Komilis D., Dermatas D. and Tsagas F. (2010), “Monitoring the Gaseous Emissions and Solids Degradation in Municipal Solid Wastes Stored in Bales”, *e-Proc. Protection and Restoration of the Environment X*, 5-9 July 2010, Corfu, Greece.

68. Tsagas F., Markidis I., Petalas A. and Dermatas D. (2010), “Comparison of MSW Composition in South and North EU Countries: Implications for Sustainable MSW Management Systems in Greece”, *e-Proc. Protection and Restoration of the Environment X*, 5-9 July 2010, Corfu, Greece.

69. Tsagas F., Petalas A., Dermatas D. (2011), ‘Design and Implementation of MSW Pretreatment Scheme’, *Proc. 12th International Conference on Environmental Science and Technology*, Rhodes, Greece, September 2011, B1042-1049.

70. Komilis D., Markidis I., Dermatas D., Tsagas F. (2011), “Degradation of Municipal Solid Wastes Stored in Bales: A Fractional Field Experiment”, *e-Proc. XIII International Waste Management and Landfill Symposium*, Sardinia, Italy, 3-7 October 2011.

71. Παναγιωτάκης, Ηρ., Τέττας, Κ., Δερματάς, Δ., Μαμάης, Μ., Γαβαλάκη, Ε., Παπασιώπη, Ν., Ξενίδης, Α., και Βατσέρης, Χ. (2012), Διερεύνηση της παρουσίας γηγενούς χρωμίου στο υπόγειο νερό της Ελλάδας χρησιμοποιώντας διαθέσιμα και νέα δεδομένα, *Πρακτικά 1ο Περιβαλλοντικό Συνέδριο Θεσσαλίας*, Σκιάθος 8-10 Σεπτεμβρίου 2012. (In Greek)

72. Dermatas, D., Vatseris, C., Panagiotakis, I., Chrysochoou, M. (2012), ‘Potential Contribution of Geogenic Chromium in Groundwater Contamination of a Greek Heavily Industrialized Area’,

e-Proc BOSICON-3rd International Conference on Contaminated Sites Remediation, Rome 12-14 September 2012.

73. Skoulaxinou R., Mavrotas G., Karkazi A., Gargoulas N., Mavropoulos A., Georgopoulou E., Gakis N., Dermatas D., Katsouros V. (2012), "Waste Management Multi-Objective Optimization for Greenhouse Gases Emissions Control", *e-Proc. International Solid Waste Association (ISWA) World Congress 2012*, Florence, Italy, 17-19 September, 2012.

74. Panagiotakis, I., Dermatas, D., Vatseris, C., Tettas, K., Theologou, E., Chrysochoou, M. (2012), 'Anthropogenic activities increasing Cr(VI) concentrations in the aquifer of the Asopos river basin', *e-Proc ISWA World Congress 2012*, Florence 17-19 September, 2012.

75. Mystrioti C., Sparis D., Papassiopi N., Xenidis A., Dermatas D., Chrysochoou M., 'Hexavalent chromium reduction with polyphenol-coated nano zero valent iron', *e-Proc 3rd Hazardous Waste Management Conference*, Chania, Greece, October 2012.

76. Dermatas, D., Panagiotakis, I., Vatseris, C., Xenidis, A., Papassiopi, N., Mpouras, T., Theologou, E., Vaxevanidou, C. and Chrysochoou M. (2013), 'Investigation of the origin of hexavalent chromium in a Greek ophiolitic aquifer', *e-Proc 13th International Conference on Environmental Science and Technology*, Athens 5-7 September 2013.

77. Panagiotakis, I., Dermatas, D., Vatseris, C., Chrysochoou, M., Papassiopi, N., Xenidis, A., Theologou, E., Mpouras, T., and Sakellariou, L. (2013), 'Investigation of chromium sources in the groundwater of Thiva industrialized area', *e-Proc 13th International Conference on Environmental Science and Technology*, Athens 5-7 September 2013.

78. Mystrioti C., Papassiopi N., Xenidis A., Dermatas D., Chrysochoou M. (2013), 'Column study for the evaluation of the transport properties of polyphenol-coated nano iron', *e-Proc 13th International Conference on Environmental Science and Technology*, Athens 5-7 September 2013.

79. Theologou, E., Panagiotakis, I., Dermatas, D., Chrysochoou, M., Toskos T. (2013), 'Remediation technologies for hexavalent chromium-contaminated aquifers', *e-Proc ISWA World Congress 2013*, Vienna, October 7-11 2013.

80. Dermatas D., Panagiotakis I., Vatseris C., Xenidis A., Papassiopi N., Mpouras T., Theologou E., Vaxevanidou K., Chrysochoou M., (2013). Investigation of the origin of hexavalent chromium in Greek ophiolitic aquifers, *e-Proc ISWA World Congress 2013*, Vienna, Austria, October 7-11 2013.

81. Mpouras, T., Panagiotakis, I., Dermatas, D., and Chrysochoou, M. (2014), 'Nano-zero valent iron: An emerging technology for contaminated site remediation,' *Geo-Congress 2014*, Atlanta GA, USA, 23-26 February 2014 (accepted).

82. Mystrioti C., Xenidis A., Papassiopi N., Dermatas D., Chrysochoou M. (2013), 'Fate of Green Tea Iron Nanoparticles in Calcareous Soils', *Geo-Congress 2014*, Atlanta GA, USA, 23-26 February 2014 (accepted).

83. Panagiotakis I., Dermatas D., Vatseris C., Merkos P., Chrysochoou M., Linardos N., Mpouras T., Theologou E., Papassiopi N., Xenidis A. (2014), 'Assessment of a Cr(VI)-contaminated industrial site in Greece', *12th International Conference "Protection & Restoration of the Environment - PRE12"*, Skiathos, Greece, July 2014.

84. Lagiopoulos I., Panagiotakis I., Chrysochoou M., Dermatas D. (2015), 'Treatment of Cr(VI)-contaminated water discharged to Asopos river using low-cost natural materials', *Conference on Environmental Science and Technology*, Rhodes, Greece, September 2015.

85. Dermatas D., Panagiotakis I., Mpouras T. (2015), 'Origin of hexavalent chromium found in groundwater: A critical decision-making parameter', *Conference on Environmental Science and Technology*, Rhodes, Greece, September 2015.

86. Binteris A., Mpouras T., Panagiotakis I., Dermatas D., Chrysochoou M. (2015), 'Reed material - A potential biosorbent for the treatment of Cr(VI)-contaminated water discharged

into Asopos river', *Conference on Environmental Science and Technology*, Rhodes, Greece, September 2015.

87. Λαγιόπουλος Ι., Μπίντερης Α., Μπούρας Θ., Παναγιωτάκης Ηρ., Χρυσοχόου Μ., Δερματάς Δ. (2015), 'Επεξεργασία νερού ρυπασμένου με εξασθενές χρώμιο με τη χρήση οργανικών υλικών', *2ο Περιβαλλοντικό Συνέδριο Θεσσαλίας*, Σκιάθος, Σεπτέμβριος 2015 (in Greek only abstract in english).

88. Παναγιωτάκης Ηρ., Δερματάς Δ., Βατσέρης Χρ., Μέρκος Π., Χρυσοχόου Μ., Λινάρδος Ν., Μπούρας Θ., Θεολόγου Ε., Παπασιώπη Ν., Ξενίδης Α. (2015). 'Προκαταρκτική διερεύνηση υδροφορέα ρυπασμένου με εξασθενές χρώμιο στα Οινόφυτα Βοιωτίας', *3ο Κοινό Συνέδριο: Ολοκληρωμένη διαχείριση υδατικών πόρων στη νέα εποχή*, Αθήνα, Δεκέμβριος 2015 (in Greek only abstract in english).

d. Other articles and oral/poster presentations

1. Dermatas D., "Stabilization and Reuse of Heavy Contaminated Soil by means of a Quicklime-Sulfate Salt Treatment", *Proc. of the Waste Retrieval, Treatment and Processing Conference*, US Dept. of Energy, March 15-17, 1993, Houston, Texas, USA, pp. 96-101.
2. Korfiatis, G. P.; Dermatas, D; Kostarelou, D., Flow-through column study of surfactants for in-situ DNAPL flushing, *Proc. Air and Waste Management Assoc., Mid-Atlantic Section, 38th Anniversary Technical Conference*, 1992. (http://www.epa.gov/tio/download/remed/surf_co.pdf)
4. Korfiatis, G.P., Christodoulatos, C., and Dermatas, D., "Remediation of Contaminated Soils by Enhanced Washing/Flushing Techniques", *Proc. of HELECO '93- New Prospects for the Environment*, April 1-4, 1993, Athens, Greece, pp. 257-263. (http://library.tee.gr/digital/bibliogr/asfaeia/epikindyna_ylika.pdf).
6. Meng X., Dermatas D. and Letterman R.D., "Removal of Arsenic from Wastewater by Adsorptive Filtration", *Proc. of ACS Symposium on Emerging Technologies in Hazardous Waste Management VI*, ACS I&EC Division, Sep. 19-21, 1994, Atlanta, Georgia, pp.233-234.
7. Korfiatis G. P., Dermatas D. and Christodoulatos C., "Selection and Use of Surfactants for NAPL Flushing", *Proc. of ACS Symposium on Emerging Technologies in Hazardous Waste Management VI*, ACS I&EC Division, Sep. 19-21, 1994, Atlanta, Georgia, pp. 109-112.
8. Dermatas D., "Surfactant-Enhanced Oil Spill Clean-up in Soils", in "What Do Engineers Do", January 1993, Editor Susan S. Metz, Women in Engineering Program Advocates Network, sponsored by the National Science Foundation (NSF), pp. 81-83.
9. Bednar A. J., Larson S. L., Gent D., Gilmore J., Malone P., Weiss C., Christodoulatos C., Manis R., Dermatas D., "Mobility and containment of Thorium-232 in soil at a military training site", *226th ACS National Meeting*, American Chemical Society, New York, NY, September 7 - 11, 2003.
10. Braida, W., Oza, K., Christodoulatos, C., Dermatas, D., Los, M., "Tungsten effects on firing ranges' lead contaminated soils", *Proc. 1st Battelle Conference on Sustainable Range Management - 2004*, pp. 1202-1222, 2004.
11. Xu, X., Dermatas, D., Menounou, N., Dadachov, M., Dutko, P., Tsaneva, V. and Arienti, P. "An Evaluation of Lead Leaching and Fixation in S/S Treated Firing Range Soils", presented at the *1st Battelle Sustainable Range Management Conference*, New Orleans, USA, January 2004.
12. Shen, G., Dermatas, D., Dadachov, M., Erickson, C., Demetriades, T. and Arienti, P., "Assessment of a Lead Immobilization Application in Firing Range Soils by Means of Column Leaching Experiments", presented at the *1st Battelle Sustainable Range Management Conference*, New Orleans, USA, January 2004.
13. Dermatas, D., Dadachov, M., Dutko, P., Menounou, N., Cefaloni, J., Arienti, P., Tsaneva, V., Shen, G. and Muto, N., "An Effective Bench-Scale Process for the Removal of Lead

from Firing Range Soils”, presented at the **1st Battelle Sustainable Range Management Conference**, New Orleans, USA, January 2004.

14. Dermatas, D., Dadachov, M., Dutko, P., Menounou, N., Cefaloni, J., Arienti, P., Shen, G., Yuan, W and Meehan, T., “Geochemical Transformations of Lead in Firing Range Soils”, presented at the **1st Battelle Sustainable Range Management Conference**, New Orleans, USA, January 2004.

15. Menounou, N., Dermatas, D., “Lead transformation in the environment of small-arm firing ranges”, presented at the **Proc. 14th Annual AEHS West Coast Conference on Soils, Sediments and Water**, San Diego, CA, April 2004.

16. Xu X., Dermatas D. and Arienti P., “An Evaluation of Pozzolan Pb Immobilization Mechanisms in Clayey Firing Range Soils”, presented at the **36th Mid-Atlantic Industrial and Hazardous Waste Conference**, University of Connecticut, October 8-10, 2004.

17. Braida W., Strigul N., Ogundipe A., Christodoulatos C., Dermatas D., Koutsospyros A. and Mukherjee R., “Tungsten Effects in Soil Environments”, **Proc. Annual SERDP & ESTCP Partners in Environmental Technology Symposium**, Washington, DC, November 30-December 2, 2004, pp.149.

18. Braida W., Oza K., Dermatas D., Koutsospyros A. and Christodoulatos C., “Addressing remedial alternatives for the treatment of tungsten contaminated soils and water”, presented at the **6th Environmental Technology Symposium**, Portland, Oregon, March 14-15, 2005,

19. Shen G., Braida W., Christodoulatos C. and Dermatas D., “Correlating W and Pb Leaching with Soil Properties in Pb-contaminated Firing Range Soils”, presented at the **15th Annual West Coast Conference on Soils Sediments and Water**, San Diego, CA, March 14-16, 2005.

20. Xu X., Dermatas D., Cao X., Shen G., Menounou N., Dutko P., “An Evaluation of Pozzolan Pb Immobilization Mechanisms in Firing Range Soils”, presented at the **15th Annual West Coast Conference on Soils Sediments and Water**, San Diego, CA, March 14-16, 2005.

21. Cao X., Ma L., Dermatas D. and Shen G., “Accumulation of Arsenic by Garden Vegetables from Soils Impacted by CCA-treated Wood and Soil Amendment Effects”, presented at the **15th Annual West Coast Conference on Soils Sediments and Water**, San Diego, CA, March 14-16, 2005.

22. Ogundipe A., Braida W., Christodoulatos C. and Dermatas D., “Dissolution Kinetics of Metallic Tungsten in the Presence of Common Alloying Elements”, presented at the **Annual West Coast Conference on Soils Sediments and Water**, San Diego, CA, March 14-16, 2005.

23. Shen G., Dermatas D., Braida W., Christodoulatos C., Arienti P., Jasinkiewicz K., Hogrelius K., “Pb and W Speciation versus Release in Legacy Pb Firing Range Soils”, presented at the **2nd Battelle Sustainable Range Management Conference**, San Antonio, TX, USA, August 2005.

24. Braida W., Shen G., Christodoulatos C., Dermatas D., Arienti P., O’Connor G., Jasinkiewicz K., Hogrelius K., “Factors Controlling the Simultaneous Leaching of Tungsten and Lead from Firing Range Soils”, presented at the **2nd Battelle Sustainable Range Management Conference**, San Antonio, TX, USA, August 2005.

25. Xu X., Dermatas D., Cao X., “Effect of Anions of the Soil Solution on Fine Lead Weathering at Military Firing Ranges”, presented at the **Battelle Sustainable Range Management Conference**, San Antonio, TX, USA, August 2005.

26. Ogundipe A., Braida W., Christodoulatos C., Dermatas D., “Dissolution Kinetics of Metallic Tungsten in the Presence of Common Alloying Elements”, presented at the **American Chemical Society (ACS) Symposium on “Tungsten: Occurrence, Environmental Fate, Potential Ecological and Health Effects”**, Washington, DC, USA, August, 2005.

27. Ogundipe A., Braida W., Christodoulatos C., Dermatas D., “Corrosion Behavior of Tungsten Alloys in the Environment”, presented at the **American Chemical Society (ACS)**

Symposium on “Tungsten: Occurrence, Environmental Fate, Potential Ecological and Health Effects”, Washington, DC, USA, August, 2005.

28. Shen G., Dermatas D., Braida W., Christodoulatos C., “W Impacts on Pb Speciation versus Release in Legacy Pb Firing Range Soils”, presented at the **American Chemical Society (ACS) Symposium on “Tungsten: Occurrence, Environmental Fate, Potential Ecological and Health Effects”**, Washington, DC, USA, August, 2005.

29. Strigul N., Braida W., Dermatas D., Christodoulatos C., Los M., Tungsten Effects on Soil Environments, to be presented at the **21st Annual International Conference on Soils, Sediments & Water**, University of Massachusetts at Amherst, October 17-20, 2005.

30. Ogundipe A., Braida W., Dermatas D., Los M., Corrosion Behavior of Tungsten Alloys in the Environment, to be presented at the **21st Annual International Conference on Soils, Sediments & Water**, University of Massachusetts at Amherst, October 17-20, 2005.

31. Oza K., Braida W., Christodoulatos C., Dermatas D., Los M., Treatment of Tungsten Contaminated Water using Ti-based Sorbent: Column Studies, to be presented at the **21st Annual International Conference on Soils, Sediments & Water**, University of Massachusetts at Amherst, October 17-20, 2005.

32. Chrysochoou M., Dermatas D., Grubb D. G. Phosphate application to firing range soils for Pb immobilization: the unclear role of phosphate, **The 10th Anniversary of the KoSSGE, International Symposium on Soil and Groundwater Environment**, Seoul, Korea, October 2005.

33. Dermatas D., Chrysochoou M., Lead particle size and its association with firing conditions and range maintenance: implications for treatment, **The 10th Anniversary of the KoSSGE, International Symposium on Soil and Groundwater Environment**, Seoul, Korea, October 2005.

34. Wazne M., Moon D.H., Dermatas D., Chrysochoou M., Christodoulatos C. and Meng X., 2005. Investigation of Cr(VI) Leachability in Chromite Ore Processing Residue (COPR): Experimental and Model Study, **The 10th Anniversary of the KoSSGE, International Symposium on Soil and Groundwater Environment**, Seoul, Korea, October 2005.

35. Moon D.H., Dermatas D. and Chrysochoou M., 2005. An Investigation of the Phase Transformation of Brownmillerite in Chromite Ore Processing Residue, **The 10th Anniversary of the KoSSGE, International Symposium on Soil and Groundwater Environment**, Seoul, Korea, October 2005.

36. Moon D.H., Dermatas D., Chrysochoou M. and Sanchez A., 2005. Heave related to ettringite formation in Chromite Ore Processing Residue, **The 10th Anniversary of the KoSSGE, International Symposium on Soil and Groundwater Environment**, Seoul, Korea, October 2005.

37. Chrysochoou M., Dermatas D. And Grubb D.G., 2006. Phosphate application to firing range soils for Pb immobilization: the unclear role of phosphate, **General Assembly, European Geosciences Union**, Vienna, Austria, April 2006.

38. Dermatas D. and Chrysochoou M. 2006. Lead particle size and its association with firing conditions and range maintenance: implications for treatment, **General Assembly, European Geosciences Union**, Vienna, Austria, April 2006.

39. Dermatas D. and Chrysochoou M., 2006. Application of deep soil mixing techniques for in-situ reductive treatment of chromite ore processing residue, **General Assembly, European Geosciences Union**, Vienna, Austria, April 2006.

40. Xuanfeng Xu, Dermatas Dimitris, Grubb Dennis G., “Immobilization mechanisms of Pb in firing range soils using Apatite II phosphate”, **7th International Symposium on Environmental Geochemistry (7th ISEG)**, 24-27 September 2006, Beijing, China.

41. Guodong Zheng, Dimitris Dermatas, Zhiguang Song, “Transformations of organic carbon and its potential impact on lead weathering in firing range soils”, **7th International**

Symposium on Environmental Geochemistry (7th ISEG), 24-27 September 2006, Beijing, China.

42. Chrysochoou, M.; Shen, G.; Dermatas, D.; Grubb, D.G.; Braida, W.; Christodoulatos, C., "Tungsten (W) and lead (Pb) leaching behavior in firing range soils", **General Assembly, European Geosciences Union**, Vienna, Austria, April 2007.

43. Chrysochoou, M.; Dermatas, D.; Grubb, D.G., "Comparison of the TCLP, sequential extraction test and SPLP for evaluating lead leachability in firing range soils", **General Assembly, European Geosciences Union**, Vienna, Austria, April 2007.

44. Dermatas D., Chrysochoou M., "Questioning the Effectiveness and Sustainability of Treating Pb-Contaminated Soils and Sediments with Phosphates", **General Assembly, European Geosciences Union**, Vienna, Austria, April 2008.

45. Chrysochoou M., Dermatas D., Grubb D.G., Moon D.H., Christodoulatos C., "Geoenvironmental Characterization of Chromite Ore Processing Residue (COPR): Implications for Cr (VI) Treatment", **General Assembly, European Geosciences Union**, Vienna, Austria, April 2008.

46. Dermatas D., Lazoglou K., Tsakmakis Y., Vatseris C., Widmar R., Papadopoulos S., "Heavy Metal Concentrations in MSW samples from Eastern Macedonia-Thrace in Greece: Implications for MSW management options", **General Assembly, European Geosciences Union**, Vienna, Austria, April 2008.

47. Chrysochoou M., Dermatas D., Fakra S., Marcus A.M., "Investigation of Cr(VI) reductive treatment effectiveness in Chromite Ore Processing Residue using micro-XANES, -XRF and -XRD", **2nd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) & SECOTOX**, Mykonos, Greece, 21-26 June, 2009.

48. Grubb G.D., Reilly T., Moon H.D., Dermatas D., "Leaching of Pb and W from a firing range soil treated with Type I/II Portland cement, silica fume cement and cement kiln dust", **2nd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) & SECOTOX**, Mykonos, Greece, 21-26 June, 2009.

49. Tsagas F., Markidis I., Tsakmakis I., Grigoropoulos N., Dermatas D., "Technical Parameters and Operational Cost of a Pilot MSW Baling-Wrapping in Alexandroupolis, Greece", **2nd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) & SECOTOX**, Mykonos, Greece, 21-26 June, 2009.

50. Markidis I., Tsagas F., Tsakmakis I., Grigoropoulos N., Dermatas D., "Transportation Cost and CO₂ Emissions of the Waste Transportation Network in the Region of Eastern Macedonia-Thrace in Greece", **2nd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) & SECOTOX**, Mykonos, Greece, 21-26 June, 2009.

51. Markidis I., Tsagas F., Grigoropoulos N., Tsakmakis I., Dermatas D., "Cost and CO₂ Emissions of the Waste Transportation Network in the Region of Eastern Macedonia-Thrace in Greece", **XII International Waste Management and Landfill Symposium**, Sardinia, Italy, 5-9 October 2009.

52. Tsagas F., Markidis I., Tsakmakis I., Grigoropoulos N., Dermatas D., "Review of Available Technologies for Volume Reduction and Interim Storage of MSW: Implications for Full-Scale Application in Greece", **XII International Waste Management and Landfill Symposium**, Sardinia, Italy, 5-9 October 2009.

53. Tsagas F., Markidis I., Tsakmakis I., Grigoropoulos N., Dermatas D., "Pilot Case Study of Baling-Wrapping for Volume Reduction and Interim Storage of MSW in Alexandroupolis, Greece", **XII International Waste Management and Landfill Symposium**, Sardinia, Italy, 5-9 October 2009.

54. Dermatas D., "Waste Management Authority Eastern Macedonia-Thrace DIAAMATH S.A.: Steps Towards a Sustainable Management of Solid Waste in our Region (Φο.Δ.Σ.Α. ΔΙ.Α.Α.ΜΑ.Θ.

A.A.E.: Βήματα Προς Μία Βιώσιμη Διαχείριση Στερεών Αποβλήτων στην Π.Α.Μ.Θ.)”, **EEDSA 3rd National Conference: Solid Waste Management- Towards a Zero Waste Society**, October 30-31, Athens Greece, 2009 (In Greek).

55. Markidis I., Tsagas F., Petalas A., Grigoropoulos N., Tsakmakis I., Dermatas D., “Study on Updating the Regional Solid Waste Management Plan for Eastern Macedonia-Thrace Region in Greece (Μελέτη επικαιροποίησης Του Περιφερειακού Σχεδιασμού Διαχείρισης Στερεών Αποβλήτων Ανατολικής Μακεδονίας και Θράκης)”, **EEDSA 3rd National Conference: Solid Waste Management- Towards a Zero Waste Society**, October 30-31, Athens Greece, 2009 (In Greek).

56. Paraschou N, Grigoropoulos N., Markidis I., Dermatas D., “Integrated Sanitary Landfill Monitoring System: Pilot Application for the Komotini Municipality Landfill (Ολοκληρωμένο Σύστημα Παρακολούθησης ΧΥΤΑ: Πιλοτική Εφαρμογή Στο ΧΥΤΑ Δήμου Κομοτηνής)”, **EEDSA 3rd National Conference: Solid Waste Management- Towards a Zero Waste Society**, October 30-31, Athens Greece, 2009 (In Greek).

57. Tsagas F., Petalas A., Grigoropoulos N., Tsakmakis I., Markidis I., Dermatas D., “Pilot Application of Municipal Solid Waste Balling (Πιλοτική Εφαρμογή Κυλινδρικής Δεματοποίησης Αστικών Στερεών Αποβλήτων)”, **EEDSA 3rd National Conference: Solid Waste Management- Towards a Zero Waste Society**, October 30-31, Athens Greece, 2009 (In Greek).

58. Dermatas D., “Soil and Groundwater Pollution: One of the Most Serious Threats for our Planet (Ρύπανση του εδάφους και του υπόγειου νερού: Μια από τις σοβαρότερες απειλές για τον πλανήτη μας)”, **Vima Ideon: newspaper To Vima**, DOL, Feb 5, 2010 (In Greek).

(<http://www.vimaideon.gr//Article.aspx?d=20100205&nid=14848933&sn=KYPIO%20TEYXOS&spid=1478>)

59. Dermatas D. (2010), ‘The necessary first steps for sustainable groundwater management in Greece (Τα απαραίτητα πρώτα βήματα για την βιώσιμη διαχείριση των υπόγειων νερών στην Ελλάδα)’, **The Economist**, Kathimerini Special Publications, July-August 2010, Issue 78, pp.54-55 (In Greek).

60. Dermatas D. (2012), “Waste and Climate Change: Focus on role of municipalities and waste minimization/prevention reuse/recycling”, **AIT Sustainability Forum 2012**, October 2012, Paiania, Greece

61. Δερματάς Δ. (2014), ‘Διερεύνηση Ρυπασμένης Περιοχής στα Οινόφυτα’, **Υποεπιτροπή Υδάτων της Ειδικής Μόνιμης Επιτροπής Προστασίας Περιβάλλοντος της Βουλής των Ελλήνων** με θέμα: “Περιβαλλοντική Κατάσταση Ποταμών της Ελλάδας: Ασωπός», 27 Μαρτίου 2014, Αθήνα (In Greek).

62. Δερματάς Δ., Κυρκίτσος Φ. (2014), “Η κυκλική οικονομία και η μηδενική παραγωγή αποβλήτων. Βασικές προσεγγίσεις της κυκλικής οικονομίας”, **Σ.Ε.Κ. Ελλάς- Agenda 2014, Κομποστοποίηση και Εναλλακτική Διαχείριση Αποβλήτων στην Τοπική Αυτοδιοίκηση**, Αθήνα, 26-28 Νοεμβρίου 2014 (In Greek).

63. Δερματάς Δ., (2015), “Βιώσιμη, οικολογική, οικονομική διαχείριση των απορριμμάτων στην Αττική - Αποκεντρωμένη Διαχείριση: να κλείσουμε τον κύκλο” , **Διεθνές Συνέδριο Περιφέρειας Αττικής - Ε.Δ.Σ.Ν.Α.**, Αθήνα, 12-14 Φεβρουαρίου 2015 (In Greek).

64. Δερματάς Δ. (2015), “Ιεράρχηση Μεθόδων Διαχείρισης Στερεών Αποβλήτων-Υφιστάμενη Κατάσταση στις Χώρες της Ε.Ε.”, **Διαχείριση & Ενεργειακή Εκμετάλλευση Αποβλήτων στην Ελλάδα** (Χριστοφόρου Λουκάς Γ.) , Ακαδημία Αθηνών, σελ.41-50 (In Greek).

65. Παναγιωτάκης Η., Δερματάς Δ., Μέρκος Π., Χρυσόχου Μ., Μπούρας Θ. (2015), ‘Περίπτωση μελέτης: Ασωπός Βοιωτίας - Προκαταρκτική διερεύνηση περιοχής ρυπασμένης με εξασθενές χρώμιο’, **Ημερίδα: «Η Οδηγία 2000/60 και η Προστασία των Εσωτερικών Υδάτων: Έρευνα και Προοπτικές»**, Ινστιτούτο Θαλασσιών Βιολογικών Πόρων και Εσωτερικών Υδάτων του Ελληνικού Κέντρου Θαλασσιών Ερευνών (ΕΛ.ΚΕ.Θ.Ε.), Αθήνα, 16 Μαρτίου, 2015.

66. Δερματάς Δ. (2015), "Αποκεντρωμένη Διαχείριση Απορριμμάτων: να κλείσουμε τον Κύκλο», *RECIS 2015: Recycling in Island regions 1ο Συνέδριο "Η Ανακύκλωση στις Νησιωτικές Περιοχές"*, Σαντορίνη, 22-23 Μαΐου 2015.

67. Dermatas D. (2015), Heavy Metal Immobilization Mechanisms and Speciation in the Geoenvironment, Athens 2015 International Landfill Mining Conference, Athens, September 24-25, 2015.

68. Δερματάς Δ., Παναγιωτάκης Ηρ., Μπούρας Θ. (2015), 'ΧΡΩΜΙΟ: ΡΥΠΟΣ ΑΛΛΑ ΚΑΙ ΦΥΣΙΚΟ ΣΥΣΤΑΤΙΚΟ ΤΟΥ ΥΠΟΓΕΙΟΥ ΝΕΡΟΥ', *τιμητικός τόμος του Ομ.Καθηγητή κ.Στ.Γιαννόπουλου*, ΑΠΘ, In Press.

3) Engineering Reports

A total of more than 110 reports have been published. The following is a limited list including only commissioned or final reports:

1. Dermatas, D., Korfiatis, G. P. and Kostarellos, D., "Preliminary Screening of Surfactants for In-Situ DNAPL Flushing", Final Report Phase I, submitted to the Whitman Companies, Inc., Report No. WHI-DNAPL-01, May 4, 1992.
2. Dermatas, D., Korfiatis, G. P. and Kostarellos, D., "Flow-Through Column Study of Surfactants for In-Situ DNAPL Flushing", Final Report Phase II, submitted to the Whitman Companies, Inc., Report No. WHI-DNAPL-02, September 22, 1992.
3. Dermatas, D., "Stabilization and Reuse of Heavy Metal Contaminated Media by Means of Quicklime-Sulfate Salt Treatment", Project Management Plan, submitted to the US Department of Energy, Report No. DE-AC21-92MC29117-PMP1, October 1, 1992.
4. Dermatas, D., "Stabilization and Reuse of Heavy Metal Contaminated Media by Means of Quicklime-Sulfate Salt Treatment", Information required for the National Environmental Policy Act Report, submitted to the US Department of Energy, Report No. DE-AC21-92MC29117-NEPA, October 27, 1992.
5. Dermatas, D., Korfiatis, G. P. and Patel, V. B., "Hydraulic Conductivity and Oil Retention Capacity Determinations for Salem Power Plant Wastes", Final Report, submitted to Public Services Electric & Gas (PSE&G), Report No. PSEG-SAL1-01, December 1, 1992.
6. Dermatas, D., Korfiatis, G. P., Christodoulatos, C. and Talimcioglu, M., "Experimental and Computer Modeling of PCP Fate and Transport in Subsurface Environments", Final Report, submitted to Bellcore, Report No. BELL-PCP-01, April 22, 1993.
7. Dermatas, D. and Meng, X, "Removal Of Heavy Metals by Adsorptive Filtration", Annual Project Summary, submitted to the Hazardous Substances and Materials Research Center, Report No. PHYS-37-01, July 1, 1994.
8. Dermatas, D., "Preliminary Results on the Stabilization/Solidification of Sludge Lagoon 11 Petroleum Contaminated Sludges", Progress Report, submitted to EXXON Research and Engineering Co., Report No. EXX-PAH-SL-11-01, March 8, 1995.
9. Dermatas, D. and Meng, X, "Removal Of Heavy Metals by Adsorptive Filtration", Final Report, submitted to the Hazardous Substances and Materials Research Center, Report No. PHYS-37-03, July 1, 1995.
10. Dermatas, D., "Stabilization and Reuse of Heavy Metal Contaminated Media by Means of Quicklime-Sulfate Salt Treatment", Final Topical Report, Phase I, submitted to the US Department of Energy, Report No. DE-AC21-92MC29117-FT, August 22, 1995.
11. Dermatas, D., "Sediment Decontamination Project", Review Results of Bench Scale Work Plans, submitted to the Brookhaven National Laboratory, Report No. BNL-DEPE-SDP-01, September 26, 1995.

12. Meng, X. and Dermatas, D., "Field Pilot Demonstration of Enhanced Sand Filtration for Heavy Metal Removal", Final Report, submitted to HSMRC, Report No. PHYS 37-05, March 3, 1997.
13. Meng, X. and Dermatas, D., "Removal of Selenium from Bethlehem Steel Wastewater using an Enhanced Sand Filtration Approach", Final Report, submitted to HSMRC, Report No. PHYS-37-06, April 10, 1997.
14. Dermatas, D., "Summary of Index Properties for the Hudson River Dredge Materials", submitted to the New Jersey Department of Transportation (NJDOT), Report No. PANYNJ 98-01, July 16, 1998.
15. Dermatas, D., "Summary of Compaction Characteristics for the cement and lime treated Hudson River Dredge Materials", submitted to the New Jersey Department of Transportation (NJDOT), Report No. PANYNJ 98-02, September 30, 1998.
16. Dermatas, D. and Meng, X., "Stabilization /Solidification of Organic Contaminated Sludges", Final Report, submitted to HSMRC, Report No. PHYS 40-02, December 15, 1998.
17. Dermatas, D., "Stabilization/Solidification of Dredged Sediment and its Beneficial Use in Transportation Related Projects", Final Report, submitted to the New Jersey Department of Transportation (NJDOT), Report No. PANYNJ 98-03, December 20, 1999.
18. Dermatas, D., "Workplan for the Range Management and Remediation Technology Assessment, Development and Demonstration for the Fort Irwin Site, Fort Irwin, California, Task#2", submitted to the US Department of Defense (US DoD), March 5, 2001.
19. Dermatas, D., "Health and Safety Plans for Range 5, Goldstone and Hoffman Sites, Fort Irwin, California, Task #2", submitted to the US Department of Defense (US DoD), January 1, 2002.
20. Dermatas, D., "Field Sampling and Analysis Plan for Range 5 Impact Berm, Fort Irwin, California, Task #2", submitted to the US Department of Defense (US DoD), January 7, 2002.
21. Dermatas, D., "Initial Assessment Report for TACOM / ARDEC Rangesafe Task #2, Fort Irwin Site, Fort Irwin, California", April 19, 2002.
22. Dermatas, D., "Report - Mineralogical Attributes of Lead Contaminated Rang 5 and Goldstone Range Soils, Fort Irwin Site, Fort Irwin, California, Task #2", submitted to the US Department of Defense (US DoD), September 17, 2002.
23. Dermatas, D., "Evaluation of Potential Reuse of ATF Pb-Contaminated Soil as Projectile Impact Medium", Task #11, submitted to the US Department of Defense (US DoD), April 16, 2003.
24. Dermatas D., Christodoulatos C., Wazne M. and Dutko P., 2003. "Progress report I: chromium contaminated Study Area 7", submitted to Honeywell International.
25. Dermatas D., Christodoulatos C., Wazne M. and Dutko P., 2004. "Progress report II: chromium contaminated Study Area 7", submitted to Honeywell International.
26. Dermatas D., Christodoulatos C., Wazne M. and Chrysochoou M., 2004. "Progress report III: chromium contaminated Study Area 7", submitted to Honeywell International.
27. Dermatas D., Christodoulatos C., Wazne M. and Chrysochoou M., 2004. "Progress report IV: chromium contaminated Study Area 7", submitted to Honeywell International.
28. Dermatas D., Christodoulatos C., Wazne M. and Chrysochoou M., 2004. "Progress report V: chromium contaminated Study Area 7", submitted to Honeywell International.
29. Chrysochoou M. and Dermatas D., 2004. "Draft report on trench investigation and analyses at Dundalk Marine Terminal", submitted to Honeywell International.

30. Chrysochoou M. and Dermatas D., 2005. "Final report on trench investigation and analyses at Dundalk Marine Terminal", submitted to Honeywell International.
31. Dermatas D. and Chrysochoou M., 2005. "Report: Mineralogy of trench samples as SA3 and evaluation of heave potential", submitted to Honeywell International.
32. Dermatas D. and Chrysochoou M., 2005. "Final report: Range Management and Remediation Technology Assessment Development and Demonstration", contract No. DAAE30-00-D-1011, DO#0002 - Task No. 2 & modification to Task No. 6, submitted to the US Department of Defense.
33. Dermatas D. and Chrysochoou M., 2005. "Final report: Development of a Soil Washing Technology Research Initiative at Picatinny Arsenal", contract No. DAAE30-00-D-1011 Task #11 & Technology Research in Support of Best Management Practices for Gun Ranges, contract No. DAAE30-00-D-1011 Task C.3.2.2", submitted to the US Department of Defense.
34. Dermatas D., Christodoulatos C., Wazne M. and Chrysochoou M., 2005. "Progress report: chromium contaminated Study Area 7: Phase IV", submitted to Honeywell International.
35. Dermatas D. and Chrysochoou M., 2005. "Report: Mineralogy of pugmill samples and swell testing of COPR treated with ferrous sulfate", submitted to Honeywell International.
36. Dermatas D. and Chrysochoou M., 2006. "Report: Mineralogy of treated COPR samples from CH2MHILL", submitted to Honeywell International.
37. Dermatas D., 2006. "Analysis and Management of Pb at New Jersey Firing Ranges", submitted to New Jersey Department of Environmental Protection (NJDEP).

VII. MEMBERSHIPS

International Solid Waste Association (ISWA), International Waste Working Group (IWWG), Mineralogical Society of America (MSA), European Geophysical Union (EGU), National Groundwater Association (NGWA), American Chemical Society (ACS), Member Greek Technical Chamber (TEE), Associate Member Geo-Institute American Society of Civil Engineers (G-I ASCE), Member American Society for Testing and Materials (ASTM), Tau Beta Pi, Clay Minerals Society, Water Research, Democritos Professional Society, Krikos Professional Society, New York Academy of Sciences.

VIII. OTHER ACTIVITIES

ACADEMIC SERVICE

- **Member** of the School of Civil Engineering General Assembly (2010-2011 and 2013-present).
- **Member** of the General Assembly of the Water Resources and Environmental Engineering Department (2010-present).
- **Member** of the Research and International Relations Committee (2012-present).
- Permanent member in all Undergraduate Diploma Thesis Committees of the Water Resources and Environmental Engineering Department (2011-2013)
- **Member** of Procurement Evaluation and Selection Committees (2011-present)
- **Academic Advisor** for incoming freshmen for 2010- 2011
- **Chair** of the Stevens Institute of Technology, Library Resources committee and member of the School of Engineering curriculum committee.
- **Member** of the Department of Civil, Environmental and Ocean Engineering Curriculum Planning, Environmental Curriculum, Structures Curriculum and Graduate Admissions Committees.

- **Member** of the Center for Environmental Systems general planning and equipment acquisition and staff committees.
- **Member** of the Board of Trustees of Stevens Institute of Technology committee on Curriculum and Student Development.
- **Academic Advisor**, Tau Beta Pi Honors Society, and Chi Psi Fraternity, Stevens Institute of Technology, Hoboken, NJ.
- **Science Supervisor** for Environmental Engineering research projects including necessary general instruction for high school students from around the US, participating in the Exploring Career Options in Engineering and Science (ECOES) annual program sponsored by the Women's Program Office at Stevens.
- **Coordinator** in the Center for Talented Youth (CTY) annual Stevens campus visit planning and undertaking. The main purpose of the visit was to create an interactive environment by means of lectures and research demonstrations, for the visiting students and parents, focusing on protecting of the earth and the environment. Responsible for a workshop on the detection and immobilization of heavy metals in soil and water.

SCIENTIFIC EDITING

- **Guest Editor**, Journal of Hazardous Materials, Special Issue on Cr(VI) in the Geoenvironment, Elsevier Science, under preparation-review stage, 2014.
- **Guest Editor**, Waste Management and Research, Special Issue on Soil Contamination and Remediation, SAGE Publishers, Special Session CEST 2013, September 5, In Press.
- **Editorial Board Member** Journal of Hazardous Materials, Elsevier, 2002- 2009 (http://www.elsevier.com/wps/find/journaleditorialboard.cws_home/502691/editorialboard#editorialboard).
- **Guest Editor**, Journal of Hazardous Materials, Special Issue on Recent Advances on Stabilization/Solidification Treatment and Remediation Technologies, Elsevier Science, Vol. 141, No. 2, March 2007.
- **Guest Editor**, Journal of Hazardous Materials, Special Issue on Emerging Technologies for a Sustainable Environment, Elsevier Science, Elsevier, Vol. 136, No. 1, August 2006.
- **Reviewer** for the following refereed journals: Environmental Science and Technology, ACS, Chemosphere, Elsevier, Industrial & Engr. Chemistry Research, American Chemical Society (ACS), Journal of Geoenvironmental Engineering, ASCE, ASTM Journal of Testing and Evaluation, Journal of Environmental Engineering, ASCE, Journal of Marine Environmental Engineering, Gordon and Breach Science Publishers, Journal of Environmental Monitoring and Assessment, Kluwer Academic Publishers, Soil & Sediment Contamination: an International Journal, AEHS, Journal of Materials in Civil Engineering, ASCE.
- **Scientific textbook and manuscript editor and reviewer** for Prentice-Hall Inc., Englewood Cliffs, New Jersey, and PWS Publishing Co., a division of Wadsworth, Inc., Boston, Massachusetts.
-

PROFESSIONAL ORGANIZATIONS AND COMMUNITY SUPPORT

- Not-for-profit Organization Earth (Οργάνωση Γη), 2008-present, **Founding Member and Governing Board Member** (<http://www.organizationearth.org/>)
- Municipality of Athens, Council Committee on Waste Management **Board Member**, 2013-present
- International Solid waste Association (ISWA), November 2010-present, **Task Force on Science member**

(http://www.iswa.org/en/685/task_force_details/tf/show_detail/task-force-on-science.html)

- ISWA Working Group on Hazardous Waste, October 2011-present, **Board Member** (http://www.iswa.org/en/305/working_groups/wg/show_details/working-group-on-hazardous-waste.html)
- ISWA Working Group on Recycling and Waste Minimization, May 2010-present, **Board Member** (http://www.iswa.org/en/305/working_groups/wg/show_details/working-group-on-recycling-and-waste-minimisation.html)
- **External consultant and member of the Environmental Politics group and the Committee on Sustainable Development of the Greek Ministry of Foreign Affairs** in preparation for the **Johannesburg United Nations Summit on the Environment**.
- **Control Panel reviewer for the Greek Ministry of Education on Undergraduate and Graduate programs in Environmental Engineering and Science.**
- **Technical consultant and proposal reviewer for the Office of Research and Development of the US Environmental Protection Agency (USEPA) government solicitations on Futures Research in Natural Sciences (STAR Program).**
- **Member of the Civil Engineering Research Foundation (CERF), the research affiliate of the ASCE, Environmental Technology Evaluation Center (EvTEC) Technical Evaluation Panel.**
- **Proposal board review member for Science Centers Program for the US Department of State and National Science Foundation, US Civilian Research and Development Foundation (CRDF) and EPA.**
- **Member of the advisory council for the Water Resources Institute, University of Wisconsin-Madison, Madison, WI.**
- **Member of the American Society for Testing and Materials (ASTM) Committees D-34 on Waste Management, D-18 on Soil and Rock and C-7 on Lime.** Duties include the development of new standards of engineering practice and the revision of existing ones.
- **Member of the American Society of Civil Engineers (ASCE) Committees on Environmental Geotechnics, Solid Waste Engineering and Potable Groundwater Quality.** Duties include:
 - preparation of policy statements, state-of-the-art reports and papers
 - review evolving regulations, standards and practices
 - organize technical programs for seminars and conferences
 - preparation of Manuals of Practice
 - advise the ASCE and other agencies in the specialty area of each committee
 - provide liaisons with related organizations
- **Member of the Environmental & Water Resources Institute (EWRI), American Society of Civil Engineers (ASCE) committee on Groundwater Quality** (http://www.asce-pgh.org/23_Register%202004.pdf).
- **Science supervisor in environmental and earth science projects undertaken annually by several Jersey City Academic High School students participating in the Hudson County High School Science Fair.** All students supervised so far won medals for their projects (1992-2005).

•

CONFERENCE SUPPORT AND DEVELOPMENT

- ISWA World Congress 2014 Sao Paolo, Brasil, 8-11 September 2014, **Scientific Committee member**
- ISWA World Congress 2013 Vienna, Austria, 7-9 October 2013, **Scientific Committee member**

- Seventh International Conference on Case Histories in Geotechnical Engineering and Symposium in Honor of Clyde Baker, Chicago, USA, April 29-May 4, 2013, **Organizing Committee member**
- 13th Conference on Environmental Science and Technology, Athens, Greece, September 5-8, 2013, **Provisional Scientific and Programme Committee member**.
(http://www.gnest.org/cest/SCIENTIFIC_COMMITTEE_cest2011.pdf)
- 12th Conference on Environmental Science and Technology, Rhodes, Greece, September 8-11, 2011, **Provisional Scientific and Programme Committee member**.
(http://www.gnest.org/cest/SCIENTIFIC_COMMITTEE_cest2011.pdf)
- 11th Conference on Environmental Science and Technology, Chania, Greece, September 3-5, 2009, **Provisional Scientific and Programme Committee member**.
(<http://www.gnest.org/cest/PROVISIONAL%20SCIENTIFIC%20AND%20PROGRAMME%20COMMITTEE.pdf>)
- 4th International ASTM Symposium on Contaminated Sediments (4ISCS), Trinity College Dublin, Ireland, July 2009, **International Scientific Committee member**.
(www.cgs.ca/cgsociety/Division/geoenvironmental-division/4iscs_flyer1.pdf)
- 2nd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 09) & SECOTOX Conference, Mykonos, Greece, June 21 to 26 2009, **International Scientific Committee member**.
(<http://www.cemepe.prd.uth.gr/CEMEPE2009/organization.html>)
- 1st International Conference on Hazardous Waste Management, Chania, Greece, 1 - 3 October 2008, **Organizing Committee member**.
(<http://www.hwm1.tuc.gr/downloads/Chania%202008.pdf>)
- 6th International Conference on Case Histories in Geotechnical Engineering, Arlington, Virginia, August 11-16, 2008, **Organizing and Scientific Committee member and Session Chair**.
(<http://campus.umn.edu/6icchge/Committees/organizingcomm.html>)
- Protection and Restoration of the Environment International Conferences I thru XII, 1992-2014, **Organizing and Scientific Committee member and Session Chair**.
(<http://www.pre11.org/>)
- WasteEng08: 2nd International Conference on Engineering for Waste Valorisation, Patras, Greece, June 3-5, 2008, **Organizing Committee member and Session Chair**.
- European Geosciences Union (EGU) 2008 General Assembly, Convener, Heavy-metal contamination of water, air, soil, and foodcrops Session, April 13-18, 2008, Vienna, Austria, **Organizing and Scientific Committee member and Session Chair**.
- American Society of Civil Engineers (ASCE) GeoCongress 2008, March 9-12, 2008, New Orleans, USA, **International Advisory Committee**, Waste Management: State-of-knowledge on Chromite Ore Processing Residue (COPR) and other Complex Residuals **Session Chair**, and Remediation: Stabilization/Solidification of Contaminated Wastes, Soils and Sediments: Characterization, Treatment Evaluation, Remediation and Sustainability **Session Co-Chair**.
- 10th Conference on Environmental Science and Technology, Kos, Greece, September 5-7, 2007, **Organizing and Scientific Committee member and Session Chair**.
- European Geosciences Union (EGU) 2007 General Assembly, Heavy-metal contamination of water, air, soil, and foodcrops Session, April 15-20, 2007, Vienna, Austria, **Organizing and Scientific Committee member and Session Chair**.
- Joint Services Environmental Management (JSEM) Conference and Exhibition, Denver, Colorado, USA, March 20-23, 2006, **Session Chair**.
- 3rd International ASTM Symposium on Contaminated Sediments, Toakai University Shizuoka, Japan, May 2006, **Organizing and Scientific Committee member and Session Chair**.

- ISSMGE: 5th International Congress on Environmental Geotechnics, Cardiff, Wales, UK, June 2006, **Scientific Committee member and Session Chair**.
- Member, **Geoenvironmental Engineering Committee**, Geo-Institute, ASCE, 2006-present
- Protection and Restoration of the Environment International Conferences I thru VII, 1992-2006, **Organizing and Scientific Committee**.
- 9th Conference on Environmental Science and Technology, Rhodes, Greece, September 2003, **Organizing and Scientific Committee member and Session Chair**.
- Department of Defense (DoD) 1st Heavy Alloys and the Environmental Symposium, Stevens Institute of Technology, Hoboken, New Jersey, USA, January 2004, **Conference Co-Chair**.
- 5th International Conference on Case Studies in Geotechnical Engineering, New York, NY, April 2004, **Organizing and Scientific Committee member and Session Chair**
- International Conference: Protection and Restoration of the Environment VII, Mykonos, Greece, July 2004, **Conference Co-Chair**.
- EU-LIFE "Sustainable Management of Wetlands and Shallow Lakes" Conference, Friedrichshafen, Germany, October 28-30, 2004. **Special Guest and Session Chair**.
- International Congress on Stabilisation/Solidification Treatment and Remediation (12-13 April 2005, Cambridge, UK), **Organizing Committee**.
- International Conference on Energy, Environment and Disasters (INCEED 2005) Charlotte, NC, USA, July 2005, **Organizing and Scientific Committee member and Session Chair**.
- American Chemical Society (ACS) Symposium on "Tungsten: Occurrence, Environmental Fate, Potential Ecological and Health Effects", Washington, DC, USA, August, 2005, **Conference Co-Chair**
- JSEM Conference and Exhibition, Denver, Colorado, USA, March 20-23, 2006, **Session Chair**.
- 3rd International ASTM Symposium on Contaminated Sediments, Toakai University Shizuoka, Japan, May 2006, **Organizing and Scientific Committee member and Session Chair**
- ISSMGE: 5th International Congress on Environmental Geotechnics, Cardiff, Wales, UK, June 2006, **Scientific Committee member and Session Chair**.
- **International Advisory Committee**, 4th British Geotechnical Society (BGA) Geoenvironmental Engineering Conference, June 2004, Stratford-on-Avon, UK
- **Co-organizer** for the "Internet Workshop on the Performance of Soils Enhanced with Potentially Reactive Additives", Board on Infrastructure and the Constructed Environment, **National Research Council**.

-

PRIVATE PRACTICE

- **Technical consultant** in the areas of soil stabilization and remediation mainly focusing on heavy metal remediation and the reuse of industrial waste by-products in construction applications for the following organizations:
 - INTERGEO Environmental Technology ltd, Thermi, Greece
 - Helector, Athens, Greece
 - Herhof, Solms, Germany
 - Aktor, Athens, Greece
 - Honeywell Inc., Morristown, NJ
 - Parsons, Liverpool, NY
 - Conti Environmental Inc., Plainfield, NJ
 - Langan Engineering and Environmental Services, New York, NY

- Mueser Rutledge Consulting Engineers, New York, NY
- Arnold and Porter LLP, Washington, DC
- Marron, Reid and Sheehy, Sacramento, CA
- Reiseman and Sharp, Parsippany NJ
- Lynch, Giuliano and Associates, Brick Town, NJ
- Geosyntec Consultants, Atlanta, GA
- Allan Kropp and Associates, Berkeley, CA
- PMK Group, Kenilworth, NJ
- Conti Environmental, Inc., South Plainfield, NJ
- Woodward Clyde Consultants, Totowa, NJ
- Reginatto Consulting Engineers, Totowa, NJ
- Foster Wheeler Enviresponce, Inc., Livingston, NJ
- By-Products Research, Inc., Philadelphia, PA
- Martin County Solid Waste Department, Stuart, FL
- Exxon Corporation, Florham Park, NJ