

Marisa (Maria) Chrysochoou, Ph.D.

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PROFESSIONAL EXPERIENCE

1/2019 – present

Head, Department of Civil and Environmental Engineering | University of Connecticut, USA

08/2018 – Present

Professor, Department of Civil and Environmental Engineering | University of Connecticut

08/2015 – 08/2018

Director, Environmental Engineering Program | University of Connecticut, USA

08/2013 – 08/2018

Associate Professor, Department of Civil and Environmental Engineering | University of Connecticut

07/2013 – 06/2015

Marie Curie Fellow | National Technical University of Athens, Greece

08/2007 – 07/2013

Assistant Professor, Department of Civil and Environmental Engineering | University of Connecticut,

05/2006 – 08/2007

Post-doctoral Research Associate, Department of Civil, Environmental and Ocean Engineering | Stevens Institute of Technology, USA

EDUCATION

01/2004 – 05/2006

Stevens Institute of Technology | Hoboken, NJ, USA

PhD: Environmental Engineering

09/2000 – 03/2003

Technische Universität Dresden | Dresden, Germany

MSc: Environmental Engineering

09/1995 – 03/2000

Aristotle University | Thessaloniki, Greece

BSc: Physics

ADMINISTRATIVE EXPERIENCE

Reporting to the Dean, I serve as Head of the Department of Civil and Environmental Engineering, which is one of the seven departments in the School of Engineering (SoE). In this capacity I supervise 3 direct reports, 33 faculty members, and several post-doctoral associates as well as adjunct faculty and part-time personnel. I am responsible for all budgets (\$6.3M), coordination with research center directors, external relations, information technology, communications, development, and alumni relations. As Chief Academic Officer of the department I am responsible for 400 undergraduate and 110 graduate students, two major degree programs, two minor degree programs, and at the graduate level three certificates, two MS, two MEng and three PhD programs. As department head, I secured a Revolutionizing Engineering Education grant from the National Science Foundation (INCLUDE), and launched several initiatives to promote research, Life-Transformative education and support underrepresented minority students, for example:

- The INCLUDE project is revamping all academic practices in the department and beyond to support neurodivergent students and raise awareness on the importance of neurodiversity for engineering innovation.
- Undergraduate Research Initiative, providing summer internships and academic year support for undergraduate students to work in research laboratories, prioritizing minority students.
- Priority Teaching Assistant support for U.S. minority graduate students.
- Graduate Leadership Initiative, supporting conference travel for graduate students with demonstrated leadership record.
- Antiracism and Equity Action committee.
- Future Leaders Internship program, matching students to premier employers in the region.
- Small grant initiative for interdisciplinary research, providing up to \$20K for CEE faculty to initiate research collaborations outside the department.
- Expanded range of online and intersession courses offered at the undergraduate and graduate level, increasing department revenue.

FUNDED PROJECTS

1. “EPA Region 1: Technical Assistance for Brownfields Program” 10/21-09/26, \$1,000,000, U.S. Environmental Protection Agency, PI: Maria Chrysochoou, co-PIs: Nefeli Bompoti, David Dickson, Rupal Parekh.
2. “Risk Management of Pyrrhotite-Induced Concrete Deterioration” 09/21-09/24. \$1,400,000, National Institute of Standards and Technology, PI: Kay Wille, co-PIs: Maria Chrysochoou (share 40%), James Mahoney.
3. “Development of a Risk Assessment Framework for Pyrrhotite-Induced Concrete Damage” 09/20-09/22. \$1,100,000, National Institute of Standards and Technology, PI: Kay Wille, co-PIs: Maria Chrysochoou (share 40%), James Mahoney.
4. “IUSE/PFE:RED Innovation Beyond Accommodation: Leveraging Neurodiversity for Engineering Innovation”. 01/20-12/24. \$2,000,000. National Science Foundation, PI: Maria Chrysochoou co-PIs: R. Gabriel, P. Diplock, A. Zaghi, A. Bagtzoglou.
5. “Redefining Public Engagement at the University of Connecticut: Studying the Impact of an Innovative STEM Service Learning Model on the University Community”. 10/19-09/24, \$2,250,000, National Foundation PI: C. Arnold, co-PIs, M. Chrysochoou (share 20%), J. Volin, T. Campbell, P. Diplock.
6. “The Connecticut Brownfields Initiative”. 01/18-08/22, \$141,000, CT Department of Economic and Community Development, PI: Maria Chrysochoou
7. “Evaluation of Grid Resilience Activities with a Total System Performance Assessment Model informed by Optimization and Economic Methodologies”, 01/18-12/19. \$292,000. Eversource Energy Center, PI: A. Bagtzoglou, co-PIs: W. Zhang, P. Borochin, M. Chrysochoou (share 20%)
8. “A bottom-up approach to design of chemical soil stabilization using thermodynamic modeling”. 7/17-7/22, \$256,694, National Science Foundation, PI: Maria Chrysochoou
9. “Laboratory Testing for Sediment Resuspension Mitigation”. 12/16-06/17, \$12,650, SESI Consulting Engineers, PI: Maria Chrysochoou (share: 60%), co-PI: Ross Bagtzoglou
10. “Investigation of Capillary Rise Induced Chromium Blooms”. 08/15-08/17, \$125,000, AECOM, PI: Maria Chrysochoou (share: 80%), co-PI: Ross Bagtzoglou
11. “Collaborative Research: Toward a unified model for ferrihydrite behavior in the environment: a multipronged investigation of surface structure and reactivity”, 10/14-10/18, \$440,000, National Science Foundation: PIs: Maria Chrysochoou (share \$236,500) and Nadine Kabengi (Georgia State University)
12. “XRD and SEM characterization of Cr-contaminated samples”, 04/14-06/14 \$10,850, AECOM, PI: Maria Chrysochoou
13. “XRD and SEM characterization of soil and historic fill materials”, 04/14-09/14, \$21,000, CB&I, PI: Maria Chrysochoou
14. “SPECHROM— Spectroscopic and computational investigation of chromium binding on pure minerals and Asopos aquifer soils”, 07/13-06/15, €222,483, Marie Curie International Incoming Fellowship, National Technical University of Athens
15. “Evaluating Applications of Field Spectroscopy Devices to Fingerprint Commonly Used Construction Materials: Phase IV”, 04/13-04/14, \$187,000, Strategic Highway Research Program 2, PI: Maria Chrysochoou

16. "Sustainable erosion control in developing countries using industrial by-products", U.S. Environmental Protection Agency, 08/11-08/12, \$15,000, PI: Maria Chrysochoou
17. "Development of GIS and prioritization strategies for brownfield reclamation", CT Department of Economic and Community Development, 06/11-06/12, \$22,200, PI: Maria Chrysochoou
18. "Strengthening and modeling of earth embankments under high loads", U.S. Department of Homeland Security, 09/09-09/10, \$118,189, PI: Maria Chrysochoou (share: 45%). Co-PIs: Dipanjan Basu, Amvrossios Bagtzoglou
19. "XRD and SEM characterization of PPG Chromite Ore Processing Residue samples", AECOM, 01/10-05/10, \$8,800, PI: Maria Chrysochoou
20. "Evaluating Applications of Field Spectroscopy Devices to Fingerprint Commonly Used Construction Materials: Phases I-III", 02/09-04/13, \$400,000, Strategic Highway Research Program 2, PI: Adam Zofka, co-PIs: Maria Chrysochoou (share: 25%), Monty Shaw, Jim Mahoney
21. "Investigation of the use of nanoscale Zero Valent Iron for Cr remediation in contaminated soils", UConn Research Foundation, 06/09-06/10, \$26,435, PI: Maria Chrysochoou
22. "Reversing Urban Sprawl: A Reclaimability Index Approach for Reviving Downtown Brownfields", Center for Transportation and Livable Systems, U.S. Department of Transportation, 08/08-08/10, \$242,405 PI: Maria Chrysochoou (share: 55%) co-PIs: Norman Garrick, Kathleen Segerson, Amvrossios Bagtzoglou
23. "Column studies for treatment optimization at National Chromium", National Chromium Inc., 10/08 - 10/09, \$10,000 PI: Maria Chrysochoou
24. "Analysis of soil-cement blending samples", Schnabel Engineering, 09/08-11/08, \$3,350 PI: Maria Chrysochoou
25. "Analysis of Al-rich powders", Schnabel Engineering, 03/08-05/08, \$6,200 PI: Maria Chrysochoou
26. "Cr-treatability study at the National Chromium Facility", National Chromium Inc., 02/08-08/08. \$8,000 PI: Maria Chrysochoou
27. "Soil-cement blending study, Greenport, NY". Schnabel Engineering, 01/08/08-04/30/08. \$4,500 PI: Maria Chrysochoou
28. "Investigation of Cr(VI) speciation via micro-XANES, micro-XRF and micro-XRD analyses", Uconn Research Foundation, 10/07, \$1,000 PI: Maria Chrysochoou
29. "LaFarge-Dominion Portland Cement–Fly Ash–Dredged Material blend evaluation", Schnabel Engineering, 09/07-04/08 \$12,000 PI: Maria Chrysochoou

CONSULTING ACTIVITIES

- 2016-2019, Subject Matter Expert, CH2MHILL and Federal Highway Administration, SHRP2 Implementation Assistant Program, Round 7.
- 2016, Consultant, Phoenix Environmental Services, Evaluation and modeling of environmental data.
- 2014-present, Consultant and Expert Witness, CB&I, Evaluation of the nature of historic fill materials in contaminated sites.
- 2014-present, Consultant and Expert Witness, AECOM, Investigation of chromium speciation in contaminated sites.
- 2014, Consultant, Strategic Highway Research Program 2 (SHRP2), Transportation Research Board, Webinar presenter
- 2012-2013, Consultant and Expert Witness, Kohl's Department Store, Investigation of heaving mechanisms in foundation material.
- 2011-2013, Consultant, National Technical University of Athens, Greece. Project LIFE+: Chromium in Asopos Groundwater System: Remediation Technologies and Measures – "CHARM"
- 2012, Organization and delivery of ASCE Webinar: Geochemistry: An important tool for Geo-Environmental engineers (offered January 10th 2011, April 9th 2012, October 3rd 2012).
- 2011, Environmental Professionals Organization of Connecticut, Organization of professional seminar on in situ remediation technologies.
- 2010, Schnabel Engineering, Project Consultant.

TEACHING

Undergraduate

Brownfield Redevelopment (2018, 2019, 2020, 2021)
Soil Mechanics I (2007-2013, 2015-2018)
Geoenvironmental Engineering (2017)
Air Pollution (2012, 2013, 2016)
Environmental Senior Design (2010)
Environmental Debate (2008)

Graduate

Geoenvironmental Engineering (online, 2018)
Contaminant Source Remediation (2010)
Environmental Transport Phenomena (2009)
Environmental Geotechnology (2005, Stevens Institute of Technology)

ADVISING

Current Post-docs and Graduate Advisees

Randi Mendes (Post-doctoral research associate)
Tarique Md Hasan (Post-doctoral research associate)
Tasneem Ahmadullah (PhD student)
Leana Santos (PhD student)
Bernard Sarpong (PhD student)
Ogochukwu Okeke (Ph.D. student)
Caressa Wakeman (PhD student)
Naomi Adler (MS student)

PhD students graduated and current placement

Yaguang Du, 2019; Assistant Professor, South Central University for Nationalities, Wuhan, China
Nefeli Bompoti, 2017; Assistant Research Professor, University of Connecticut
Chad Johnston, 2012; Assistant Professor, Loyola University

MS students graduated

Kelly Drengler (2008), Aaron Ting (2010), Matthew Rood (2010), Geeta Dahal (2010), Xiaolong Zhang (2010), Jacqueline Oakes (2013), Jaclyn Sidman (2021)

Visiting students/scholars supervised

Marie Laure Ducasse (2008), Wang Zhe (2009), Guo Li (2017)

CITATIONS

Scopus: 2065 h-index 25

Google Scholar: 2735, h-index 28

PUBLICATIONS

Book Chapters

1. Chrysochoou M. 2020 Understanding soil-contaminant interactions: a key to improved groundwater quality, In: *Women in Water Quality: Investigations by Prominent Female Engineers*, Editor: Deborah O'Bannon. Springer, pp. 185-196.

2. Chrysochoou M. and Bompoti N. Laboratory testing for Chemical Characterization of Solids, Gas and Liquids, *Manual of Geoenvironmental Engineering Professional Practice*, American Society of Civil Engineers (expected publication date, June 2020).
3. Kabengi N. and Chrysochoou M., 2015. Soil Science in Environmental Management. In: *An Integrated Approach to Environmental Management*, Editors: Rupali Datta, John Wiley and Sons, pp. 75-98.
4. Chrysochoou M., 2013. Application of quantitative X-ray Diffraction in Geoenvironmental problems: overview and case studies, Chapter 5, In: *X-ray Diffraction: Structure, Principles and Applications*, Editor: Kaimin Shih, Nova Science Publishers.
5. Chrysochoou M. and Dermatas D., 2011. An overview of the properties and treatment of Chromite Ore Processing Residue, In: *Management of hazardous residues containing Cr(VI)*, Nova Science Publishers, pp. 273-302.

Journal papers published

1. Chester Arnold, Juliana Barrett, Todd Campbell, Maria Chrysochoou, Nefeli Bompoti, 2021. The Environment Corps: Combining classroom Instruction, service-learning and extension outreach to create a new model of community engaged scholarship at the University of Connecticut, *Journal of Higher Education Outreach and Engagement*, 25(2), 215-232.
2. Campbell-Montalvo R., Campbell T., Park E.Y., Arnold C., Volin J., Chrysochoou M and Diplock P. 2021. E-Corps' Implementation of Environmental Sustainability-Focused Service-Learning: Conditions Supporting the Establishment of an Epistemic Community, *Journal of STEM Outreach*, 4(1), 1-12.
3. Cruz-Hernandez Y., Chrysochoou M. and Wille K. 2020. Wavelength dispersive X-ray fluorescence method to estimate the oxidation reaction progress of sulfide minerals in concrete, *Spectrochimica Acta Part B: Atomic Spectroscopy* 172, 105949
4. P Yue, N Chen, D Peak, NM Bompoti, M Chrysochoou, A Onnis-Hayden, 2020, Oxygen atom release during selenium oxyanion adsorption on goethite and hematite, *Applied Geochemistry*, 04605
5. Du Y. and Chrysochoou M. 2020. Microstructural Analyses of Cr(VI) Speciation in Chromite Ore Processing Residue from the Soda Ash Process, *Journal of Hazardous Materials*, 122385.
6. Kollias K., Mylona E., Adam K., Chrysochoou M., Papassiopi N. and Xenidis A. 2019. Characterization of phosphate coating formed on pyrite surface to prevent oxidation, *Applied Geochemistry*, 110, 104435.
7. Bompoti N., Chrysochoou M. and Machesky M. 2019. A unified surface complexation modeling approach for chromate adsorption on iron oxides, *Environmental Science and Technology*, 53(11), 6352-6361.
8. Bompoti N., Chrysochoou M. and Machesky M. 2018., Assessment of modeling uncertainties using a multi-start optimization tool for surface complexation equilibrium parameters (MUSE), *ACS Earth and Space Chemistry*, 3(4), 473-483.
9. Chrysochoou M., Oakes J. and Dyar D. 2018. Investigation of iron reduction by green tea polyphenols, *Applied Geochemistry*, 97, 263-269.
10. Chrysochoou M. and Du Y. 2018. Experimental and modeling behavior of Chromite Ore Processing Residue from the soda ash process, *Environmental Engineering Science*, 35(11), 1185-1193.
11. Kubicki J., Kabengi N., Chrysochoou M. and Bompoti N. 2018. Density functional theory modeling of chromate adsorption onto ferrihydrite nanoparticles, *Geochemical Transactions*, 19:8, <https://doi.org/10.1186/s12932-018-0053-8>.
12. Lagiopoulos I., Binteris A., Mpouras T., Panagiotakis I., Chrysochoou M. and Dermatas D. 2017. Potential biosorbents for treatment of chromium(VI)-contaminated water discharged into Asopos River, *International Journal of Environmental Science and Technology*, 14(7), 1481-1488.
13. Chrysochoou M., and Reeves K. 2017. Investigation of hexavalent chromium reduction by green tea polyphenols, *Bulletin of Environmental Contamination and Toxicology*, 98(3), 353-358.
14. Mpouras T., Chrysochoou M. and Dermatas D. 2017. Investigation of hexavalent chromium sorption on serpentine soil, *Journal of Contaminant Hydrology*, 197, 29-38.
15. Bompoti N., Chrysochoou M. and Machesky M., 2017. Surface structure of ferrihydrite: Insights from modeling surface charge. *Chemical Geology*, 464, 34-45.

16. Kabengi N., Chrysochoou M., Bompoti N. and Kubicki J. 2017. An integrated flow microcalorimetry, infrared spectroscopy and density functional theory approach to the study of chromate complexation on hematite and ferrihydrite, *Chemical Geology*, 464, 23-33.
17. Chrysochoou M., Theologou E., Bompoti N., Dermatas D. and Panagiotakis I. 2016. Occurrence, Origin and Transformation Processes of Geogenic Chromium in Soils and Sediments, *Current Pollution Reports*, 2(4), 224-235.
18. Johnston C. and Chrysochoou M. 2016. Mechanisms of Chromate, Selenate, and Sulfate Adsorption on Al-Substituted Ferrihydrite: Implications for Ferrihydrite Surface Structure and Reactivity, *Environmental Science and Technology*, 50(7), 3589-3596.
19. Bompoti N., Chrysochoou M. and Dermatas D. 2015. "Geochemical characterization of Greek ophiolitic environments using statistical analysis", *Environmental Processes*, 2, (Suppl 1), S5-S21 DOI: 10.1007/s40710-015-0097-z.
20. Chrysochoou M., 2015. "Geochemistry in Geotechnical Engineering Problems: Ettringite as Case Study", *Geotechnical Engineering* , 46(4), 1-7.
21. Mystrioti C., Sparis D., Papassiopi N., Xenidis A., Dermatas D. and Chrysochoou M. 2015. "Assessment of Polyphenol Coated Nano Zero Valent Iron for Hexavalent Chromium Removal from Contaminated Waters" *Bulletin of Environmental Contamination and Toxicology*, 94(3), 302-307.
22. Panagiotakis I., Dermatas D., Vatsaris C., Chrysochoou M., Papassiopi N., Xenidis A. and Vaxevanidou K. 2015. Forensic Investigation of a Chromium(VI) groundwater plume in Thiva, Greece, *Journal of Hazardous Materials*, 281, 27-34.
23. Dermatas D., Mpouras A., Chrysochoou M., Vatsaris C., Papassiopi N., Xenidis A., Theologou E. and Bompoti N. 2015. Origin and concentration profile of chromium in a Greek aquifer, *Journal of Hazardous Materials*, 281, 35-46.
24. Chrysochoou M. and Johnston C.P., 2015. Sulfur speciation and reactivity in calcium-polysulfide treated soil, *Journal of Hazardous Materials*, 281, 87-94.
25. Johnston C.P. and Chrysochoou M., 2015. Mechanisms of chromate adsorption on boehmite, *Journal of Hazardous Materials*, 281, 56-63.
26. Mystrioti C., Papassiopi N., Xenidis A., Dermatas D. and Chrysochoou M., 2015., "Column study for the evaluation of the transport properties of polyphenol coated nano iron", *Journal of Hazardous Materials*, 281, 64-69.
27. Johnston C.P. and Chrysochoou M., 2014. Mechanisms of chromate adsorption on hematite, *Geochimica et Cosmochimica Acta*, 138, 146-157.
28. Chrysochoou M., 2014. Investigation of mineral dissolution rate and strength development in stabilized soils using quantitative X-ray Diffraction, *Journal of Materials in Civil Engineering*, 26(2), 288-295
29. Chrysochoou M., Zhang X and Amador J., 2013. Comparison of Cr(VI) reduction by aerobic bacteria in culture and soil conditions, *Soil and Sediment Contamination*, 22, 273-287.
30. Johnston C.P. and Chrysochoou M., 2012. Investigation of Chromate Coordination on Ferrihydrite by in situ ATR-FTIR Spectroscopy and Theoretical Frequency Calculations, *Environmental Science and Technology*, 46(11), 5851-5858.
31. Chrysochoou M., Brown K., Dahal G., Granda C., Segerson K., Garrick N. and Bagtzoglou A., 2012. Decoupling brownfield assessment from end use: A GIS tool and indexing scheme for long term redevelopment planning, *Landscape and Urban Planning*, 105(3), 187-198.
32. Chrysochoou M., Grubb D.G. and Malasavage N., 2012. Assessment of Sulfate-Induced Swell in Stabilized Dredged Material: Is Ettringite Always a Problem?, *Journal of Geotechnical and Geoenvironmental Engineering*, 138(3), 407-414.
33. Chrysochoou M., Johnston C. and Dahal G., 2012. A Comparative Evaluation of Cr(VI) Treatment in Contaminated Soil by Calcium Polysulfide and Nanoscale Zero Valent Iron, *Journal of Hazardous Materials*, 201-202, 33-42.
34. Dermatas D., Vatsaris C., Panagiotakis I. and Chrysochoou M., 2012. Potential contribution of geogenic chromium in groundwater contamination of a Greek heavily industrialized area, *Chemical Engineering Transactions*, 28, 217-222.
35. Chrysochoou M., McGuire M. and Dahal G., 2012. Transport Characteristics of Green-Tea Nano-scale Zero Valent Iron as a Function of Soil Mineralogy, *Chemical Engineering Transactions*, 28, 121-126.
36. Chrysochoou M. and Ting A., 2011. A kinetic study of Cr(VI) reduction by calcium polysulfide, *Science of the Total Environment*, 409, 4072-4077.

37. Chrysochoou M., Granda C., Brown K., Dahal G., Garrick N., Segerson K. and Bagtzoglou A., 2011. Reviving Connecticut's brownfields: institutions and obstacles, *The Connecticut Economy*, 19(1), 14-16.
38. Chrysochoou M., Grubb D.G., Drenkler K. and Malasavage N., 2010. Stabilized Dredged Material III: A mineralogical perspective, *Journal of Geotechnical and Geoenvironmental Engineering*, 136(8), 1037-1050.
39. Grubb D.G., Malasavage N., Smith C.J and Chrysochoou M., 2010. Stabilized Dredged Material II: Geomechanical behavior, *Journal of Geotechnical and Geoenvironmental Engineering*, 136(8), 1025-1036.
40. Grubb D.G., Chrysochoou M., Smith C.J. and Malasavage N., 2010. Stabilized Dredged Material I: A parametric study, *Journal of Geotechnical and Geoenvironmental Engineering*, 136(8), 1011-1024.
41. Chrysochoou M., Ferreira D. and Johnston C., 2010. Calcium polysulfide treatment of Cr contaminated soil, *Journal of Hazardous Materials*, 179, 650-657.
42. Chrysochoou M., Dermatas D., Moon D.H., Grubb D.G. and Christodoulatos C., 2010. Geoenvironmental characterization of Chromite Ore Processing Residue: Implications for treatment, *Journal of Geotechnical and Geoenvironmental Engineering*, 136(3), 510-521.
43. Chrysochoou M., Fakra S., Marcus M.A., Moon D.H. and Dermatas D., 2009. Microstructural Analyses of Cr(VI) Speciation In Chromite Ore Processing Residue (COPR), *Environmental Science and Technology*, 43(14), 5461-5466.
44. Chrysochoou M., Moon D.H., Fakra S., Marcus M.A., Dermatas D. and Christodoulatos C., 2009. Use of Micro-X-ray Absorption spectroscopy and diffraction to delineate Cr(VI) speciation in COPR, *Global NEST Journal*, 11(3), 318-324.
45. Grubb D.G., Moon D.H., Reilly T., Chrysochoou M., Dermatas D. 2009. Stabilization/solidification (S/S) of Pb and W contaminated soils using type I/II portland cement, silica fume cement and cement kiln dust, *Global Nest Journal* 11 (3) , pp. 267-282.
46. Chrysochoou M., Dermatas D. and Christodoulatos C., 2009. Experimental studies on coupled treatment of Chromite Ore Processing Residue, *Journal of ASTM International*, Vol. 6 No. 3 DOI: 10.1520/JAI102165.
47. Dermatas D., Chrysochoou M., Grubb D.G. and Xu X., 2008. Phosphate treatment of firing range soils: Pb fixation or P release?, *Journal of Environmental Quality*, 37: 47-56.
48. Wazne M., Moon D.H., Jagupilla S.C., Jagupilla S.C., Christodoulatos C., Dermatas D., Chrysochoou M., 2007. Remediation of chromite ore processing residue using ferrous sulfate and calcium polysulfide, *Geosciences Journal*, 11(2): 105-110.
49. Dermatas D. and Chrysochoou M., 2007. Lead particle size and its association with firing conditions and range maintenance: implications for treatment, *Environmental Geochemistry and Health*, 29(4):347-355.
50. Moon D.H., Dermatas D., Wazne M., Sanchez A., Chrysochoou M. and Grubb D.G., 2007. Swelling related to ettringite crystal formation in Chromite Ore Processing Residue, *Environmental Geochemistry and Health*, 29(4):289-294.
51. Chrysochoou M., Dermatas D. and Grubb D.G., 2007. Phosphate application to firing range soils for Pb immobilization: the unclear role of phosphate, *Journal of Hazardous Materials*, 144(1-2):1-14.
52. Moon D.H., Wazne M., Dermatas D., Christodoulatos C., Sanchez A.M., Grubb D.G., Chrysochoou M. and Kim M.G., 2007. Long-term treatment issues with chromite ore processing residue (COPR): Cr⁶⁺ reduction and heave, *Journal of Hazardous Materials*, 143(3):629-635.
53. Dermatas D., Chrysochoou M., Pardali S. and Grubb D.G., 2007. Influence of X-Ray Diffraction sample preparation on quantitative mineralogy: implications for chromate waste treatment, *Journal of Environmental Quality*, 36(2):487-497.
54. Chrysochoou M. and Dermatas D., 2007. Application of the Rietveld method to assess Cr(VI) speciation in Chromite Ore Processing Residue, *Journal of Hazardous Materials*, 141(2):370-377.
55. Dermatas D., Chrysochoou M., Moon D.H., Grubb D.G., Wazne M. and Christodoulatos C., 2006. Ettringite-Induced Heave in Chromite Ore Processing Residue (COPR) upon Ferrous Sulfate Treatment, *Environmental Science and Technology* 40(18):5786-5792.

56. 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*, 136(1):20-33.
57. Dermatas D., Shen G., Chrysochoou M., Grubb D.G., Menounou N. and Dutko P., 2006. Pb speciation vs. TCLP release in army firing range soils, *Journal of Hazardous Materials*, 136(1):34-46.
58. Dermatas D., Bonaparte R., Chrysochoou M. and Moon D.H., 2006. Chromite Ore Processing Residue: Hazardous Contaminated Soil or Solid Waste?, *Journal of ASTM International*, Vol. 3 No.7, doi: 10.1520/JAI13313.
59. Chrysochoou M., Dermatas D., Moon D.H., Christodoulatos C., Wazne M., French C., Morris J. and Kaouris M., 2006. Investigation of barium treatment of Chromite Ore Processing Residue, *Journal of ASTM International* Vol. 3 No.6, doi: 10.1520/JAI13314.
60. 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* Vol. 3 No.6, doi: 10.1520/JAI13309.
61. Karagiannidis A., Chrysochoou M., Moussiopoulos N., Samaras Z., and Rakibey P. (2006). Examples of solid waste analysis and characterisation in accordance with contemporary European environmental legislation, *International Journal of Sustainable Development and Planning*, 1(4):464-475.
62. Karagiannidis A., Perkoulidis G., Moussiopoulos N. and Chrysochoou M., 2004. Facility location for solid waste management through compilation and multicriterial ranking of optimal decentralised scenarios: a case study for the region of Peloponnesse in southern Greece, *Engineering Research*, 1:7-18.

CONFERENCE PAPERS AND PRESENTATIONS (past 5 years)

Full conference papers

1. Chrysochoou M, Zaghi A, Syharat C, Motaref S, Jang S, Bagtzoglou A, Wakeman C. Redesigning Engineering Education for Neurodiversity: New Standards for Inclusive Courses. 2021 ASEE Virtual Annual Conference Content Access. 2021 ASEE Virtual Annual Conference; 2021 July 26. Available from: <https://peer.asee.org/37647>
2. Du Y. and Chrysochoou M. 2018. Microstructural analyses of Cr(VI) speciation in soda-ash chromite ore processing residue from China, Proceedings of the Air and Waste Management Association's Annual Conference and Exhibition, AWMA Volume 2018-June, Air and Waste Management Association's 111th Annual Conference and Exhibition, Hartford, CT.
3. Bompoti N., Chrysochoou M. and Machesky M. 2016. Advances in surface complexation modeling for chromium adsorption on iron oxide, GeoChicago 2016, Sustainability, Energy, and the Geoenvironment, Chicago, IL, August 14-18.
4. Du Y. and Chrysochoou M. 2016. The leaching characteristics of Chromite Ore Processing Residue from China, GeoChicago 2016, Sustainability, Energy, and the Geoenvironment, Chicago, IL, August 14-18.
5. 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, 14th Conference on Environmental Science and Technology, Rhodes, Greece, September 2015, paper 01428.
6. 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, paper 01426.
7. Chrysochoou M., Bompoti N., Dermatas D. and Theologou E. 2014. Identification of Cr and Ni origin in Greek soils via R-mode factor analysis, paper A408, Proceedings of the 12th International Conference on Protection and Restoration of the Environment, Skiathos, Greece, June 29 – July 3 2014.
8. Mpouras T., Dermatas D. and Chrysochoou M., 2014. Evaluation of the adsorption of hexavalent chromium on ophiolitic soils, paper A409, Proceedings of the 12th International Conference on Protection and Restoration of the Environment, Skiathos, Greece, June 29 – July 3 2014.
9. Panagiotakis, D. Dermatas, C. Vatseris, P. Merkos, M. Chrysochoou, N. Linardos, T. Mpouras, E. Theologou, N. Papassiopi A. Xenidis, 2014. Assessment of a Cr(VI)-contaminated industrial

- site in Greece, paper A410, Proceedings of the 12th International Conference on Protection and Restoration of the Environment, Skiathos, Greece, June 29 – July 3 2014.
10. Mystrioti C., Xenidis A., Papassiopi N., Dermatas D. and Chrysochoou M., 2014. "Fate of green tea iron nanoparticles in calcareous soils", *Geotechnical Special Publication* 234, 2189-2198.
 11. Mpouras T., Panagiotakis I., Dermatas D. and Chrysochoou M., 2014. Nano-zero valent iron: An emerging technology for contaminated site remediation, *Geotechnical Special Publication* 234, 2206-2215.
 12. Chrysochoou M., Machesky M. and Johnston C., 2013. A new surface complexation model for chromate adsorption on ferrihydrite. Proceedings of the 13th International Conference on Environmental Science and Technology, paper 687, Athens, Greece, 5-7 September 2013.
 13. Kabengi N., Chrysochoou M., Johnston C.P. and Tulloch J., 2013. Elucidating mechanisms of chromate complexation on iron oxide surfaces using flow calorimetry and infrared spectroscopy. Proceedings of the 13th International Conference on Environmental Science and Technology, paper 552, Athens, Greece, 5-7 September 2013.
 14. Theologou E., Panagiotakis I., Dermatas D., Chrysochoou M. and Toskos T., 2013. Remediation technologies for hexavalent chromium contaminated aquifers. Proceedings of the 13th International Conference on Environmental Science and Technology, paper 815, Athens, Greece, 5-7 September 2013.
 15. Mystrioti C., Papassiopi N., Xenidis A., Dermatas D. and Chrysochoou M., 2013. Column study for the evaluation of transport properties of polyphenol coated nano-iron. Proceedings of the 13th International Conference on Environmental Science and Technology, paper 742, Athens, Greece, 5-7 September 2013.
 16. Panagiotakis I., Dermatas D., Vatsaris C., Chrysochoou M., Papassiopi N., Xenidis A., Theologou E., Mpouras T. and Sakellariou L., 2013. Investigation of chromium sources in the groundwater of Thiva, Greece. Proceedings of the 13th International Conference on Environmental Science and Technology, paper 745, Athens, Greece, 5-7 September 2013.
 17. Dermatas D., Panagiotakis I., Vatsaris C., Xenidis A., Papassiopi N., Mpouras T., Theologou E., Vaxevanidou K. and Chrysochoou M., 2013. Investigation of origin of hexavalent chromium in a Greek ophiolitic aquifer. Proceedings of the 13th International Conference on Environmental Science and Technology, paper 746, Athens, Greece, 5-7 September 2013.
 18. Panagiotakis I., Dermatas D., Vatsaris C., Tettas K., Theologou E. and Chrysochoou M., 2012. Anthropogenic Activities Increasing Cr(VI) Concentrations In The Aquifer of The Asopos River Basin, The ISWA Solid Waste Congress, September 17-19, Florence, Italy.
 19. Chrysochoou M. and Dahal G., 2012. Influence of soil geochemistry on transport of green tea iron nanoparticles, Protection and Restoration of the Environment XI Conference Proceedings, July 3-6 2012, Thessaloniki, Greece.
 20. Chrysochoou M., Puppala A. and Chittoori B., 2012. Characterization of clays using quantitative XRD and chemical analyses, *GeoCongress 2012: State of the Art and Practice in Geotechnical Engineering*, *Geotechnical Special Publication No. 225*, ed. R.D. Hryciw, A. Athanasopoulos-Zekkos, N. Yesiller, pp. 1165-1174.
 21. Zofka A., Chrysochoou M. and Yut I. 2012. Spectroscopic Evaluation of Recycled Asphalt Pavement Materials, *GeoCongress 2012: State of the Art and Practice in Geotechnical Engineering*, *Geotechnical Special Publication No. 225*, ed. R.D. Hryciw, A. Athanasopoulos-Zekkos, N. Yesiller, pp. 1572-1581.
 22. Chrysochoou M. and Johnston C.P., 2012. Reduction of Chromium(VI) in Saturated Zone Sediments by Calcium Polysulfide and Nanoscale Zerovalent Iron Derived From Green Tea Extract, *GeoCongress 2012: State of the Art and Practice in Geotechnical Engineering*, *Geotechnical Special Publication No. 225*, ed. R.D. Hryciw, A. Athanasopoulos-Zekkos, N. Yesiller, pp. 3959-3968.
 23. Chrysochoou M., Dahal G., Brown K., Garrick N., Granda C., Segerson K. and Bagtzoglou A. Prioritizing brownfields for development: a GIS tool and indexing scheme for environmental, socioeconomic and smart-growth factors, accepted for presentation at the TRB 2011 conference, Washington D.C., January 23-27, 2011.
 24. Grubb, D.G., Chrysochoou, M., and Schrock, M., 2010. "Dredged material stabilization with lime and cement kiln dusts," 2010 International Solidification/Stabilization Technology Forum, C.B. Lake and C.D. Hills (eds.), Dalhousie University Press, Halifax, Nova Scotia, Canada, pp. 227-234.

25. Chrysochoou M., Grubb D.G. and Fair J., 2010. Beneficial Use Evaluation of Two Aluminum Powders in Soil-Cement Applications, GeoFlorida 2010 Conference Proceedings, West Palm Beach, FL.
26. Chrysochoou M., Moon D.H., Fakra, S., Marcus M.A., Dermatas D. and Christodoulatos C., 2008. Use of X-ray Absorption Spectroscopy and diffraction to delineate Cr(VI) speciation in COPR, Protection and Restoration of the Environment IX, Kefalonia, Greece.
27. Moon D.H., Grubb D.G., Reilly T., Chrysochoou M. and Dermatas D., 2008. Leaching Behavior of Lead (Pb) and Tungsten (W) Contaminated Soils Stabilized with Type I/II Portland Cement, Silica Fume Cement and Cement Kiln Dust, Protection and Restoration of the Environment IX, Kefalonia, Greece.
28. Chrysochoou M., Dermatas D., Moon D.H. and Christodoulatos, C., 2008. Reductive treatment of Chromite Ore Processing Residue: lessons from a field study, Geocongress 2008, Conference Proceedings, New Orleans, LA.
29. Dermatas D., Chrysochoou M., Moon D.H., Kaouris M., Morris J. and French C., 2008. Current knowledge on heaving mechanisms of Chromite Ore Processing Residue, Geocongress 2008, Conference Proceedings, New Orleans, LA.
30. Moon D.H., Dermatas D., Sanchez A., Chrysochoou M., Grubb D.G. and Wazne M., 2008. Assessment of brownmillerite hydration in chromite ore processing residue at elevated temperature, Geocongress 2008, Conference Proceedings, New Orleans, LA.
31. Grubb D.G., Chrysochoou M. and Smith, C.J., 2008. Dredged Material stabilization: the role of mellowing on cured properties, Geocongress 2008, Conference Proceedings, New Orleans, LA.
32. Dermatas, D., Chrysochoou M. and Moon D.H., 2008. Geoenvironmental Characterization to Assess Waste Stabilization/Solidification Treatment Performance and Sustainability, Geocongress 2008, Conference Proceedings, New Orleans, LA.
33. Chrysochoou M., Dermatas D. and S. Pardali, 2006. Effects of mineralogy on the leaching characteristics of solid waste, Protection and Restoration of the Environment VIII, Conference Proceedings, Chania, Greece.
34. Dermatas, D. Sanchez A., Moon D.H., Chrysochoou M., Christodoulatos C. and Grubb D.G., 2006. Brownmillerite hydration in Chromite Ore Processing Residue at elevated temperatures, Protection and Restoration of the Environment VIII, Conference Proceedings, Chania, Greece.
35. Moon D.H., Dermatas D., Chrysochoou M. and Grubb D.G., 2006. An investigation of the phase transformation in brownmillerite in Chromite Ore Processing Residue, Protection and Restoration of the Environment VIII, Conference Proceedings, Chania, Greece.
36. Moon D.H., Dermatas D., Chrysochoou M., Sanchez A. and Grubb D.G., 2006. Sulfate-induced heaving in Chromite Ore Processing Residue, 5th Conference on Environmental Geotechnics Proceedings, 26-30th June, Cardiff, United Kingdom.
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38. Chrysochoou, M., Moon D.H., Dermatas D., Wazne M., Christodoulatos C., Meng X., Kaouris M., Morris J., French C. and Sass B., 2005. Mineralogical analysis of Chromite Ore Processing Residue by X-ray Powder Diffraction, In-situ and On-site Bioremediation Symposium, Conference Proceedings, Battelle, Columbus, Ohio.
39. Dermatas D., Chrysochoou M., Moon D.H., Pardali S., Christodoulatos C., Lazarte C.A., Pendleton C., Bonaparte R., Briggs R., Myers M., French C., Morris J., and Kaouris M., 2005. Mineralogical analysis of Chromite Ore Processing Residue at Dundalk Marine Terminal Area 1800, In-situ and On-site Bioremediation Symposium, Conference Proceedings, Battelle, Columbus, Ohio.
40. Moon D.H., Dermatas D., Chrysochoou M., Sanchez A., Wazne M. and Grubb D.G., 2005. Sulfate induced heaving in Chromite Ore Processing Residue, 5th International Conference in Environmental Geotechnics, Cardiff, UK.
41. Dermatas D. and Chrysochoou M., 2005. The Rietveld Method as a Tool for Assessing Heavy-metal Immobilization in S/S Treatment Investigations, Proceedings International Conference on Stabilization/Solidification Treatment and Remediation, Cambridge, England.
42. Chrysochoou M., Dermatas D., Moon D.H. and Wazne M., 2005. Role and properties of Calcium Aluminum Chromium Oxide Hydrates in Chromium Waste Stabilization, First

International Conference on Environmental Science and Technology, New Orleans, Louisiana, USA.

43. Chrysochoou M. and Dermatas D., 2004. Application of Ettringite in Heavy-Metal Immobilization: A Literature Review, Protection and Restoration of the Environment VII, Conference Proceedings, Mykonos, Greece.
44. Karagiannidis A., Xirogiannopoulou A., Chrysochoou M., Perkoulidis G., and Moussiopoulos N. 2004. Modeling the citizens' annoyance and convenience from urban solid waste management collection bins, Protection and Restoration of the Environment VII, Conference Proceedings, Mykonos, Greece.
45. Chrysochoou M., Michalzik B., Harzer S., Bilitewski B. and Moussiopoulos N., 2003. Assessment of the contamination potential from waste material – a comparison between batch/elution experiments and studies in landfill simulation reactors, Proceedings of the 9th International Waste Management and Landfill Symposium, Sardinia, Italy.
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47. Papadopoulos S., Moussiopoulos N., Vatsaris C., Karagiannidis A. and Chrysochoou M., 2003. Development of an integrated tool for contaminated site remediation implementing biological and physicochemical treatment methods, Proceedings 8th Conference on Environmental Science and Technology, Lemnos, Greece.

Abstracts Only

1. Bompoti, YC Hernandez, M Chrysochoou, M Machesky, 2021. Interfacial phenomena of Al-substituted ferrihydrite, Goldschmidt Virtual.
2. Ahmadullah T., Bompoti N. and Chrysochoou M. 2021. Thermodynamic and kinetic modeling of cementitious reactions in lime-treated clays, Goldschmidt 2021 virtual conference, July 4-9 2021.
3. Ahmadullah T. and Chrysochoou M. 2020. Evaluation of reaction kinetics in chemical clay soil stabilization, 57th Annual Meeting of the Clay Minerals Society, October 18-23, 2020, virtual meeting.
4. Chrysochoou M., Wille K. and Mahoney M. Evaluation Of Reaction Progress In Pyrrhotite-Impacted Concrete Foundations Using A Wd-Xrf Method, Geological Society of America Abstracts with Programs. Vol. 53, No. 1, 2021. doi: 10.1130/abs/2021NE-361700
5. Mangines H., Du Y., Bompoti N. and Chrysochoou M., 2018. Chromate adsorption on iron rich soils: Experiments and modeling. New England Graduate Student Water Symposium, University of Massachusetts, September 7-9. (oral presentation)
6. Adsit W., Bompoti N. and Chrysochoou M., 2018. Modeling of U (VI) of adsorption on iron oxides. New England Graduate Student Water Symposium, University of Massachusetts, September 7-9. (oral presentation)
7. Bompoti N., Chrysochoou M. and Machesky M., 2018. Towards a unified thermodynamic database: U (VI) and Cr (VI) adsorption on iron oxides. Goldschmidt 2018, Boston, MA, August 12 -17. (oral presentation)
8. Bompoti N., Chrysochoou M. and Machesky M., 2018. Iron oxide – solution interface: Insights from Surface Complexation Modeling. 255thAmerican Chemical Society National Meeting & Exposition, New Orleans, March 18-22. (oral presentation)
9. Chrysochoou M., Bompoti N., and Machesky M., 2018. The MUSE: A Multi – Start optimization algorithm for surface complexation Equilibrium parameters in complex systems. Symposium in Honor of James A Davis, 255th American Chemical Society National Meeting & Exposition, New Orleans, March 18-22. (oral presentation)
10. Bompoti N., Chrysochoou M. and Machesky M., 2017. Advances on reactive transport modeling: Modeling adsorption of heavy metals on iron oxides using an innovative surface complexation model. SETAC North America 38th Annual Meeting, Minneapolis, MN, Nov 12-16, 2017.
11. Bompoti N., Chrysochoou M. and Machesky M., 2017. Predicting Chromate Adsorption on Iron Oxides: A surface complexation modeling study. 2017 ASA, CSSA, and SSSA Annual Meeting in Tampa, FL, Oct. 22-25.

12. Bompoti N., Chrysochoou M. and Machesky M., 2017. The MUSE: A Multi –start optimization algorithm for Surface complexation Equilibrium parameters. Goldschmidt 2017, Paris, France, August 13 -18, 2017.
13. Bompoti N., Chrysochoou M. and Machesky M., 2017. The MUSE application: A Unified Surface Complexation Modeling approach for chromate binding to iron oxides. Goldschmidt 2017, Paris, France, August 13 -18, 2017.
14. Bompoti N., Chrysochoou M. and Machesky M., 2016. Surface complexation modelling of chromate adsorption on iron oxides. Air & Waste Management Association's New England Section: Climate Change: Risks, Rewards and Resiliency” Conference 2016, Framingham, Massachusetts, October 27, 2016.
15. Chrysochoou M., Mamais D. and Dermatas D. 2016. Cr and Mn speciation and interactions in Greek ophiolites, Goldschmidt 2016, Yokohama, Japan, June 26-July 1.
16. Chrysochoou M., Kabengi N. Bompoti N., Kubicki J. and Machesky M. 2016. Resolving the fine-scale reactivity of chromate complexation on iron oxide surfaces, 251st American Chemical Society National Meeting & Exposition, San Diego, CA, March 13-17.
17. Chrysochoou M. and Bompoti N. 2016. Carbonate adsorption on ferrihydrite: a semi-quantitative IR study, 251st American Chemical Society National Meeting & Exposition, San Diego, CA, March 13-17.
18. Bompoti N., Chrysochoou M. and Machesky M. 2016. Surface complexation modelling of chromate adsorption on iron oxides, 251st American Chemical Society National Meeting & Exposition, San Diego, CA, March 13-17.
19. Theologou E., Panagiotakis I., Dermatas D., Chrysochoou M. and Toskos T., 2013. Remediation technologies for hexavalent chromium contaminated aquifers. International Solid Waste Association World Congress, October 7-11 2013, Vienna, Austria.
20. Dermatas D., Panagiotakis I., Vatsaris C., Xenidis A., Papasiopi N., Mpouras T., Theologou E., Vaxevanidou K. and Chrysochoou M., 2013. Investigation of origin of hexavalent chromium in a Greek ophiolitic aquifer. International Solid Waste Association World Congress, October 7-11 2013, Vienna, Austria.
21. Chrysochoou M., Kabengi N., Machesky M., Johnston C. and Kubicki J., 2013. An integrated approach to build surface complexation models for chromate on iron oxides, Goldschmidt 2013, August 25-30, Florence, Italy.
22. C. Mystrioti, D. Sparis, N. Papasiopi, A. Xenidis, D. Dermatas and M. Chrysochoou, “Hexavalent chromium reduction with polyphenol-coated nano zero valent iron”, Extended Abstract in Proceedings of 3rd International Conference on Industrial and Hazardous Waste Management, Chania, Greece, 2012
23. Johnston C.P. and Chrysochoou M., 2012. Mechanisms of chromate adsorption at the mineral-water interface, 244th American Chemical Society National Meeting and Exposition, Philadelphia, PA, August 19-23, oral presentation.
24. Boyer D., Cipoletti S. and Chrysochoou M., 2012. Sustainable Erosion Control in Developing Countries using Industrial By-products, 2012 National Sustainable Design Expo, April 21-23, Washington, D.C., poster presentation.
25. Chrysochoou M., Dahal G., Brown K., Garrick N., Granda C., Segerson K. and Bagtzoglou A., 2011. Prioritizing brownfields for development: a GIS tool and indexing scheme for environmental, socioeconomic and smart-growth factors, TRB 90th Annual Meeting, January 23rd – 27th, Washington, DC.
26. Chrysochoou M., Rood M. and Vasquez C., 2011. A systematic approach to clay stabilization, International Symposium on Testing and Specification of Recycled Materials for Sustainable Geotechnical Construction, February 2nd-4th, Baltimore, Maryland.
27. Chrysochoou M., Dahal G., Kweku B., Granda-Carvajal C., Garrick N., Segerson K and Bagtzoglou R., 2010. Reversing Urban Sprawl: A Reclaimability Approach to Reviving Downtown Brownfields, Transportation Systems for Livable Communities Conference, Washington D.C. October 18-19th, poster presentation.
28. Dahal G., Brown K., Granda-Carvajal C., Chrysochoou M., Garrick N., Segerson K. and Bagtzoglou A., 2010. Reversing Urban Sprawl: A Reclaimability Approach to Reviving Downtown Brownfields, International Conference on Green Remediation, University of Massachusetts at Amherst, June 15-17, poster presentation.
29. Johnston C.P. and Chrysochoou M., 2010. An in situ ATR-FTIR study of chromate binding to goethite, American Chemical Society Annual Meeting, San Francisco, March 21-25th, 2010.

30. Dahal G. and Chrysochoou M., 2010. Nanoscale Zero Valent Iron treatment of Cr contaminated soil, American Chemical Society Annual Meeting, San Francisco, March 21-25th, 2010.
31. Ting A. and Chrysochoou M., 2010. Kinetics of Cr(VI) reduction by cationic polysulfides, American Chemical Society Annual Meeting, San Francisco, March 21-25th, 2010.
32. Johnston C.P. and Chrysochoou M., 2009. Calcium polysulfide reduction of hexavalent chromium-contaminated aquifer sediments in saturated flow-through columns, American Chemical Society Northeast Regional Meeting, Hartford, CT, October 8th 2009.
33. Ting A. and Chrysochoou M., 2009. Reaction kinetics between hexavalent chromium and cationic polysulfides in aqueous solutions, American Chemical Society Northeast Regional Meeting, Hartford, CT, October 8th 2009.
34. Rood M. and Chrysochoou M. Strengthening of soil embankments under high dynamic loads, 2009 Northeast Geotechnical Graduate Research Symposium, University of Massachusetts at Amherst, October 30th 2009.
35. Chrysochoou M., Ferreira D. and Johnston C., 2009. Calcium polysulfide treatment of Cr contaminated soil, Second International Conference on Environmental Management, Engineering, Planning and Economics, Mykonos, Greece.
36. Chrysochoou M. and Grubb D.G., 2009. Quantification of ettringite in lime-stabilized clays, 46th Annual Meeting of the Clay Minerals Society, Billings, Montana, June 2009.
37. Chrysochoou M., Fakra S., Marcus M.A., Dermatas D. and Moon D.H., 2009. Microstructural analyses of Cr speciation in Chromite Ore Processing Residue, Second International Conference on Environmental Management, Engineering, Planning and Economics, Mykonos, Greece.
38. Chrysochoou M. and Dermatas D., 2009. Investigation of Cr(VI) speciation and reduction in Chromite Ore Processing Residue, 11th International Conference on Environmental Science and Technology, Chania, Greece, September 3-5 2009.
39. Chrysochoou M., Fakra S. and Marcus M., 2008. Investigation of Cr(VI) speciation and reduction in Chromite Ore Processing Residue (COPR) using micro-XANES, -XRF and -XRD, 2009 ALS Users Meeting, Berkeley, CA, October 13-15 2008.
40. Dermatas D. and Chrysochoou M., 2007. A critical review of Pb-contaminated firing range soil remediation by phosphate addition: treatment performance and environmental sustainability, 10th International Conference on Environmental Science and Technology, Kos, Greece.
41. Chrysochoou M., Dermatas D., and Grubb D.G., 2007. Comparison of the TCLP, sequential extraction (SET) and SPLP tests for evaluating lead leachability in firing range soils, European Geosciences Union, Vienna, Austria.
42. Chrysochoou M., Shen G., Dermatas D., Grubb D.G., Braida W., and Christodoulatos C., 2007. Tungsten (W) and lead (Pb) leaching behavior in firing range soils, European Geosciences Union, Vienna, Austria.
43. Dermatas D., Pardali S., Chrysochoou M. and Moon D.H., 2006. The role of XRPD analyses in the investigation of COPR mineralogy during treatment: a case study, Protection and Restoration of the Environment VIII, Conference Proceedings, Chania, Greece.
44. 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.
45. 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.
46. 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.
47. 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.
48. 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.

49. Moon D.H., Dermatas D., Chrysochoou M. and Sanchez A., 2005. Heavy metals related to ettringite formation in Chromite Ore Processing Residue, The 10th Anniversary of the KoSSGE, International Symposium on Soil and Groundwater Environment, Seoul, Korea.
50. Moon D.H., Dutko P., Dermatas D., Chrysochoou M. and Christodoulatos C., 2005. Ettringite-Induced Laboratory Swelling in Chromite Ore Processing Residue, In-situ and On-site Bioremediation Symposium, Conference Proceedings, Battelle, Columbus, Ohio.
51. Moon D. H., Chrysochoou M., Dermatas D. and Christodoulatos C., 2005. Investigation of Ettringite Formation in Chromite Ore Processing Residue, In-situ and On-site Bioremediation Symposium, Conference Proceedings, Battelle, Columbus, Ohio.
52. Moussiopoulos N., Karagiannidis A., Theodoseli M., Perkoulidis G., Chrysochoou M. and Salonikidou A., 2003. Effects in urban air quality from open burning of residual solid wastes in uncontrolled landfills, 4th International Conference on Urban Air Quality, Measurement, Modeling and Management, Charles University Prague, Czech Republic

INVITED TALKS

1. University of Illinois at Chicago, International Geoenvironmental Engineering Webinar Series, Dissecting the solid: spectroscopy in geoenvironmental applications.
2. Columbia University, Department of Earth and Environmental Engineering, 2021. Neurodiversity in Engineering: Cultivating the Potential of Nontraditional Thinkers.
3. Air and Waste Management Association, Women in Engineering Workshop, Hartford, CT, June 26 2018.
4. South Central University for Nationalities, 2018. Geochemical Modeling of Contaminant Fate and Transport Processes, Wuhan, China.
5. South Central University for Nationalities, 2015. Application of spectroscopy in metal remediation: the example of chromium, Wuhan, China, 2 June 2015.
6. Chemical Processes at Environmental Interfaces Symposium, 2015. 249th American Chemical Society Meeting, Denver, CO, March 22-26, 2015.
7. National Technical University of Athens, 2015. Soil functions in metal remediation: the example of chromium, Seminar series of the Water Resources Science and Technology graduate program, October 31st 2015, Athens, Greece
8. Los Alamos National Laboratory, 2013. Application of spectroscopy to delineate chromium geochemistry and optimize remediation, Frontiers in Geochemistry seminar series, invited speaker, December 16-17, Los Alamos, New Mexico, USA.
9. U.S. Army Research and Development Center, 2011. Identifying the mineralogy of soils, sediments and rocks: why you need it and how to do it. Invited workshop, June 20-22, Vicksburg, Mississippi, USA.
10. Rensselaer Polytechnic Institute, Department of Civil and Environmental Engineering, 2011. Application of spectroscopy in metal remediation – the example of chromium.
11. University of Massachusetts at Amherst, Department of Civil Engineering, 2011. A systematic approach to clay stabilization.
12. National Technical University of Athens, 2010. The role of soil in water quality and remediation.
13. Schnabel Engineering, 2010. Geochemistry: A science for dusty classrooms or a living, breathing beast in geotechnical/geoenvironmental engineering?

AWARDS

2021, Inductee, Connecticut Academy of Science and Engineering

2020, Women of Innovation Postsecondary Academic Innovation and Leadership Award, Connecticut Technology Council and Connecticut Center for Advanced Technology

2020, Distinguished Service Award, American Society of Environmental Engineering and Science Professors

2019, Honoree, Connecticut Women Hall of Fame; Women: A Force for Nature.

2016-2019, Castleman Professor in Engineering Innovation

2013-2015 Marie Curie International Incoming Fellowship, European Union

2012, University of Connecticut Environmental Leadership Award

2012, P3 (People, Prosperity and the Planet) Award, U.S. Environmental Protection Agency

PROFESSIONAL MEMBERSHIPS

American Society of Civil Engineers (ASCE)

Association of Environmental Engineering and Science Professors

Engineers Without Borders U.S.A.

Society of Women Engineers

PROFESSIONAL SERVICE

(past three years)

Within UCONN

School of Engineering Committees:

- Chair, Promotion Tenure and Reappointment Amplification of Procedures Committee (2021): lead committee that revised the PTR Amplification of Procedures guidance document by the School of Engineering

University Committees:

- Senate Executive Committee (2021-to date)
- Provost Taskforce for Life Transformative Education and co-chair, Authentic and Inclusive Learning Working Group (2019-2021): co-authored report on the present and future of academic practices that render education a Life-Transformative experience.
- UConn Regional Accreditation Steering Committee: co-authored university 5-year interim report to NECHE (New England Consortium for Higher Education)
- UConn Reads: member of steering committee for university-wide actions related to climate change, based on the book “The Great Derangement: Climate Change and the ”
- Krenicki Institute Steering Committee: member of steering committee that oversees the activities of the Krenicki Institute for Fine Arts and Engineering.

Outside UCONN

ASCE Civil Engineering Department Heads Coordinating Council, 2021 to date (elected member).

Board of Directors Member, Corporation for Independent Living (non-profit organization supporting housing for people with disabilities), 2021 to date.

Sustainable CT, volunteer sustainability certification program for CT communities: reviewer and brownfield program evaluator, 2017-to date.

Chair, Environmental Engineering Program Leaders Committee, Association of Environmental Engineering and Science Professors, 2017-2019.