

Publications and Presentations

Yarrow Nelson, Ph.D.

Nelson, Y., 2017 "Algae-Based Biofuel Production combined with Wastewater Treatment and Air Pollution Control for Synergistic Environmental Benefits." Energy for Tomorrow International Conference & Workshop (REMOO), 10–12 May 2017, Venice, Italy.

Nelson, Y. 2017, "Zero Waste Strategies for Oily Sludge in the Petroleum Industry." Second International Resource Recovery Conference, 5-9 August, 2017, Columbia University, New York, NY.

Nelson, Y., 2016. "New directions for environmental research to address growing evidence for anthropogenic global climate change." 26th Oxford Roundtable International Environment, Sustainability and Climate Change Symposium, 20-23 July, 2016, Oxford, UK

Billings, Mackenzie, Y. Nelson, C. Kitts and K. Roberts, 2015. "Microcosm Tests for Natural Attenuation, Biostimulation, and Bioaugmentation of Soils Contaminated with PCBs, Dioxins, PAHs, and Petroleum Hydrocarbons, Presented at the Third International Symposium on Bioremediation and Sustainable Environmental Technologies, Miami, Florida, May, 2015.

Croyle, Kenneth, Y. Nelson, A. Hamrick, C. Kitts, T. Lane, K. Poorey, D. Curtis and K. Williams. 2015. "Microbial Characterization of Soil using Molecular Methods and Traditional Culturing for Assessment of Natural Attenuation of Mixed Contaminants." Presented at the Third International Symposium on Bioremediation and Sustainable Environmental Technologies, Miami, Florida, May, 2015.

Poltorak, Matthew , Y. Nelson, M. Curto, D. Dowd, and K. Roberts, 2014. "Field Greenhouse Studies of Phytoremediation with California Native Plants for Soil Contaminated with Petroleum Hydrocarbons, PAHs, PCBs, Chlorinated Dioxins/Furans, and Metals." Presented at the Third International Symposium on Bioremediation and Sustainable Environmental Technologies, Miami, Florida, May, 2015.

Poltorak, M. , Y. Nelson, M. Curto, A. Koivunen, and K. Roberts, 2014. "Potential for Phytoremediation of Soil Contaminated with Petroleum Hydrocarbons, PAHs, PCBs, Dioxins/Furans, and Metals at the former Energy Technology Engineering Center." Presented at the 9th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA May, 2014.

Croyle, K., Y. Nelson, C. Kitts and T. Lane "Genetic Analysis of Soil Microbes to Determine Potential for Natural Attenuation of PAHs, Dioxins, PCBs, and petroleum hydrocarbons" Presented at the 9th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA May, 2014.

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Manheim, D. and Y. Nelson. 2013. "Settling and bioflocculation of two species of algae used in wastewater treatment and algae biomass production" *Environmental Progress & Sustainable Energy*, Vol 32, No. 4, pp. 946–954

Shihady, S., Nelson, Y, et al.,. 2012 "Bench-scale testing: Transfer of NOx from artificial flue gas to *Chlorella* algae grown in photobioreactors." Presented at the annual meeting of the National Algae Association, Nov. 2012

Kline, K., D. Mackay, L. Rastegarzadeh, Y. Nelson and J. Clark. 2011. "Importance of exposure history when using single well push pull tests to quantify in situ ethanol biodegradation rates." *Ground Water Monitoring & Remediation.*, Vol 31, pp 103-110.

Woertz, I., A. Feffer, T. Lundquist and Y. Nelson. 2009. "Algae grown on dairy and municipal wastewater for simultaneous nutrient removal and lipid production for biofuel feedstock." *J. Environ. Engin.* (ASCE). Vol 135, No 11, pp 1115-1122.

- Nelson, Y.M., S. Bragg-Flavan, L. Rastegarzadeh, M. Chell, K. Crossley, and E. Mick. "Assessment of Alternative Modes of Biodegradation for Natural Attenuation of Weathered Petroleum." Presented at the 10th International Conference on In-situ and On-site Bioremediation." Baltimore, MD, May, 2009.
- Mick, E., K. Crossley, and Y. M. Nelson, 2007. " Chemical Composition of Groundwater Hydrocarbon Mixtures Before and After Aerobic Biodegradation." Platform presentation at the 9th International Conference on in-situ and on-site Bioremediation." Baltimore, MD, May 7-10, 2007.
- Dreyer, M.G., Y.M. Nelson, C. Kitts, P. Lundegard and G. Garcia, 2005. "Weathering effects on biodegradation and toxicity of hydrocarbons in groundwater." Presented at the 8th International Conference on In Situ and On-Site Bioremediation, Battelle, Baltimore, MD, June 5, 2005.
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- Martin, W., Y.M. Nelson and K. Hoffman, 2004."Investigation of hydrocarbon phytoremediation potential of *Lupinus chamissonis* in laboratory microcosms. Platform presentation at the Water Environment Federation Conference, October, 2004, New Orleans.
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