

Abstract Submitted
for the MAR16 Meeting of
The American Physical Society

Modeling Adsorption Kinetics (Bio-remediation of Heavy Metal Contaminated Water).¹ CHRIS MCCARTHY, BMCC CUNY — My talk will focus on modeling the kinetics of the adsorption and filtering process using differential equations, stochastic methods, and recursive functions. The models have been developed in support of our interdisciplinary lab group which is conducting research into bio-remediation of heavy metal contaminated water via filtration through biomass such as spent tea leaves. The spent tea leaves are available in large quantities as a result of the industrial production of tea beverages. The heavy metals bond with the surfaces of the tea leaves (adsorption).

¹Funding: CUNY Collaborative Incentive Research Grant

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Date submitted: 10 Nov 2015

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