

Abstract of Invited Talk to be Presented at

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**Properties of Estuarine Sediments from the NY/NJ Harbor.\***

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NY/NJ Harbor sediments contain different levels of organic and inorganic contaminants that may cause the environmental problems and potentially harm to human health. Hence, knowledge of sediments is necessary for understanding the fate and transport of the contaminants and helping provide a scientific basis for making decisions on their management. Characterization of the sediments and associated contaminants on a grain-size scale using synchrotron radiation techniques gives information not provided by other techniques. We report here the preliminary results for metal distributions on grains, structure of sediments, and composition changes of organic compounds following decontamination treatment, using synchrotron technology under collaboration with a number of colleagues.

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