## GRAND CHALLENGES GREAT SOLUTIONS

ASA, CSSA, & SSSA International Annual Meeting Nov. 2-5, 2014 | Long Beach, CA

American Society of Agronomy | Crop Science Society of America | Soil Science Society of America

Start	<b>168-4</b> Mighty Manganese Oxides in Central Pennsylvania Soils.
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	Jason Fischel, University of Delaware, Newark, DE and Donald L Sparks, 221 Academy Street Ste 250, University of Delaware, Newark, DE
	The impacts of early industrial activity in Central Pennsylvania still lay right beneath the forest floor. Once the home to some of the richest iron seems in the country, small forges were common across the landscape. Refining of the iron ore or smelting released large amounts of atmospheric manganese into the surrounding environment more than a century ago. Yet, the manganese is still concentrated in the top five centimeters of the soil profile at levels over 10,000 ppm, below this region concentrations rapidly decreases to background levels. The use of x-ray diffraction (XRD) and x-ray absorption spectroscopy (XAS) mapping provided critical insights into the cycling of manganese in the environment. See more from this Division: SSSA Division: Soil Mineralogy See more from this Session: Soil Mineralogy Posters
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