## The Legacy of Dr.Grant Thomas:Contributions to Understanding Soil Acidity and Ion Exchange. (S02-kamprath102928-Oral)

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## Abstract:

Contributions to be discussed are:Coatings of Al and Fe hydrous oxides on clays counter the negative charges of clays and reduce the CEC;Hydroxy Al and Al are complexed by organic matter and reduce the CEC;Organic matter regulates the quantity of Al in the soil solution of surface soils;Soil pH is strongly related to the presence of exchangeable Al in soils;Hydroxy Al is nonexchangeable but is titratable and strongly affects the lime requirement of soils;Trivalent Al is a major factor limiting plant growth in acid soils;Condumetric titrations of clays estimate exhangeable Al and hydroxy Al

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