

## CSSS Poster Sessions Agenda ... revised July 18, 2013

### Poster Session 01 Tuesday July 23, 3:00 - 4:00 pm

011	Roland Kröbel	Using the HoloS model to estimate the greenhouse gas emission inventory for cropland in the Black-Brook watershed, NB, during the years 1988 - 2011
013	David Snider	Combining micrometeorological measurements with molecular and stable isotope techniques to understand the mechanisms producing nitrous oxide emissions in dairy manure-fertilized soils
014	Xiaopeng Gao	Greenhouse Gases Emissions from Hog Slurry Applied to Alfalfa and Sainfoin on a Silt Loam Soil in Southern Central Manitoba
016	Tanja Voegel	Nitrifier and denitrifier abundances and activities in soils of woody perennial crops in a semi-arid inter-mountain basin environment
020	Coby Hoogendoorn	Nitrous oxide emission factors for sheep urine deposited on winter-grazed forage brassica and ryegrass swards in New Zealand
021	Amanda M. Taylor	Field-scale carbon dioxide and methane exchange over winter bale-grazing, backgrounding steers in Brandon, Manitoba
022	Xiaobin Guo	Effect of anaerobically digested dairy manures on nitrous oxide emissions, soil denitrification rates, and denitrifier abundance in short-term incubations
028	Scott X. Chang	Soil carbon pools in different size and density fractions in three agroforestry and adjacent agricultural ecosystems in central Alberta
030	M.A. Liebig	Quantifying Greenhouse Gas Mitigation Potential of Cropland Management Practices: A Review of the GRA Croplands Research Group Greenhouse Gas Network
034	Gurbir Singh Dhillon	Soil carbon sequestration and dynamics in the shelterbelts of Saskatchewan
039	Muhammad F. Sulaiman	Net ecosystem exchange of dairy cropping systems
045	Andrew VanderZaag	Towards a methane emission inventory that responds to changes in manure management on Canadian farm
046	Andrew VanderZaag	Nitrous oxide emissions and nitrogen leaching in Dairy feed crops receiving manure, anaerobically digested manure, and urea
054	Sebastian Cambareri	Nitrous oxide emissions as affected by timing and method of dairy manure application in corn
056	Jolene Rutter	Development of an automated system for greenhouse and nitrogen gas flux determinations from compost
059	A. Sissoko	Greenhouse Gas Emissions from Dairy Manure at Various Levels of Storage Tank Emptying
061	Chukwudi Amadi	The impact of a shelterbelt on soil properties and greenhouse gas emission in an adjacent crop field
075	Krista Hanis	Seasonal Carbon Flux Dynamics of a Subarctic Fen within the Hudson Bay Lowlands
031	Siobhan E. Maas	Agricultural Greenhouse Gas Outreach for School Children and the Public
069	Paul Bartlett	Soil Respiration in a Deciduous Mixedwood Forest near Borden, Ontario
070	Aklilu Wake	Importance of including the carbon budget into estimates of whole-farm greenhouse gas emissions from beef production systems
085	Guillermo Ramirez	Nitrous Oxide Fluxes in Crop Fields receiving various Manure Managements: A Compilation of two Studies in Indiana and Alberta
029	Robert Gulden	Mycorrhizal fungi colonization and community dynamics in a long-term rotation as influenced by previous crop and weed management intensity
047	Alex Woodley	Nitrogen carryover effects of various Organic Amendments on subsequent season Cereal Production within Southern Ontario, Canada
052	Tandra Fraser	Soil phosphorus turnover in long-term organic and conventional management systems
062	Joann K. Whalen	Elevated earthworm populations affected primary production and nitrous oxide fluxes from forage systems in a field enclosure study
068	B.L. Helgason	Response of soil microbial communities to <sup>13</sup> C labelled barley residue depends on management and is site-specific
080	K.A. Thompson	Abundance of Denitrifier Communities in Switchgrass and Miscanthus Biomass Production Systems

093 Tom Forge

Use of dairy manure solids as mulch for establishment of red raspberry: influences on soil nematode communities and N and P availability

**Poster Session 02 Wednesday July 24, 10:00 - 11:00 am**

001	Lakesh Sharma	Relationship of corn height, active optical sensor readings and corn yield under different soil surface textures in North Dakota
002	Paul Sanborn	Organic Cryosols on forested upland slopes, northern Rocky Mountains, British Columbia
010	Tom King	Effect of Cattle Manure Application Variability on Soil Nutrient Movement in a Black Chernozem
012	Cory Fatteicher	The Effect of Wild Oat Stage on Uptake and Release of Nutrients
018	Lindsay Jmaiff	Method development for determining heavy metal concentrations and distribution in soil horizons located near Kamloops, BC
019	Kendra Purton	Characterization of Soil Organic Matter Along a Climosequence in the Grassland-Forest Transition in West-Central Saskatchewan
023	Ahmadreza Sheikhhosseini Esfahani	Sorption of Nickel on Palygorskite, Sepiolite and Calcite: Equilibrium and Kinetic Studies
024	Sirajum Munira	Effect of phosphorous and cadmium levels on glyphosate sorption in soil under acidic and alkaline conditions
027	Karin Rose	The Effect of Antibiotic Presence and Agitation on Estrogen Mineralization in Liquid Swine Manure
033	Elizabeth MacCormick	Effect of salmon-based silage on soil nutrient dynamics: an incubation study
038	Panchali Katulanda	Assessing the impact of soil origin on microbial community structure of genetically different transplanted soils
042	Brian Wallace	Spring wheat yields and NO <sub>3</sub> - leaching from green manure plowdown in Nova Scotia
044	Lance Ouellette	Corn stover removal effects on soil aggregation and squash fruit yield in cover cropping systems
048	Mihiri C.W. Manimel Wadu	Probing inorganic P compounds in fertilized soils - A comparison of 31P MAS NMR, P K- edge and P L-edge XANES
049	Aruna Herath	Effects of liquid, solid and compost swine manure on soil phosphorus fractions in a clay loam soil under corn-soybean rotation
060	Ahmad S. Mat Su	Rapid measurement of nitrate ion activity using a direct soil sensing approach
064	Charles Geddes	The Allelopathic Potential of Hairy Vetch, Fall Rye, and Winter Wheat In a Silty Clay Loam Soil
079	Jen Webb	Information Technology to Assess and Achieve Compliance with Manitoba Regulations
005	Xueming Yang	Potential of using mid-infrared spectroscopy in study of soil and solution samples in Canada
017	Paul Bartlett	Canopy-Snow Interaction in CLASS: An Investigation into Canopy Albedo, Interception and Unloading in Relation to Weather
058	Laura L. Van Eerd	Long term effects of tillage system and crop rotation on soil physical and chemical properties in a Brookston clay loam at Ridgetown, ON
066	Joanne Thiessen Martens	Profitable, Sustainable and Resilient Cropping Systems: A Vision for the Development of Canadian Prairie Agriculture
067	John Heard	State and Provincial Soils: Pick Yours out of this Line-Up!
003	Nazrul Islam	Impact of Inoculation with <i>Glomus irregulare</i> on Colonization and Phosphorus Uptake by Pea ( <i>Pisum sativum</i> L.) as Affected by Soil and Climate
051	Oluwatoyin Obikoya	Continuous phosphorus fertilizer addition affects phosphorus forms of contrasting prairie soils
065	Steve Sheppard	Vegetated Buffer Strips: 12 sites and 3 years and little evidence of phosphorus retention
074	Mihiri C.W. Manimel Wadu	P solubility in ten Manitoba soils as influenced by sulphate salt addition – An exploratory study
092	S. M. Sayem	Measurement of N release from solid beef and liquid swine manure in a growing season using anion exchange resin

**Poster Session 03 Wednesday July 24, 3:15 - 4:30 pm**

006	Xueming Yang	Fall accumulation and spring release of soil mineral nitrogen following winter wheat and before corn planting on a Brookston clay loam in SW Ontario
007	Réjean Picard	Nutrient cycling in winter grazing cattle on pasture: Forage impact five years following bale grazing once
008	Réjean Picard	Nutrient cycling in winter grazing cattle on pasture: Soil impact, five years following bale grazing once
032	Eric Bremer	Evaluation of PRSTM probes for Monitoring Soil Nutrients in Potato Production
043	Mervin St. Luce	Particulate organic matter and soil mineral nitrogen concentrations are good predictors of the soil nitrogen supply to canola following legume and non-legume crops in western Canada
050	Ramona Mohr	Estimation of In-season Nitrogen Mineralization in Irrigated Potato Production Systems in Manitoba using a Nitrogen Balance Approach
070	Aiklilu Wake	Importance of including the carbon budget into estimates of whole-farm greenhouse gas emissions from beef production systems
071	Keith D. Fuller	Nitrogen Leaching Losses in Manure Amended Perennial Hayfield and Corn-Soybean-Wheat Rotations in Atlantic Canada.
072	Ben W. Thomas	Nitrogen mineralization from a sandy loam and silty clay soil with a three-year history of manure and mineral fertilizer
081	Katelyn A. Congreves	Influence of used cooking oil on the fate of broccoli crop residue-derived 15N
082	Yanhua Wang	Emissions of greenhouse gases from constructed wetlands for nitrogen removal
083	Barbara J. Cade-Menun	The effect of in-field winter bale grazing on soil nutrients in pastures in Saskatchewan
084	Mayowa. F. Adelekun	Temperature data logging system for soil temperature measurement
009	Francis Larney	Long-term recovery of soil organic matter and aggregates stability in an artificially eroded soil under various one time amendments
015	Jeff Schoenau	he Effect of Biochar on Soil Nitrogen Availability and Greenhouse Gas Production in Two Fertilized Prairie Soils
025	Yong Sik Ok	Effects of Pyrolysis Temperature and Feedstock on Metal Availability and Microbial Community in Biochar-Amended Soil
036	Mahtab Ahmad	Metal Immobilization and Soil Quality Improvement in Military Shooting Range Soil Using Soybean Stover- and Pine Needle-derived Biochars
053	Taiwo Akinseloyin	CROPPING SYSTEMS AND SWINE MANURE TYPES AFFECT SOIL SURFACE MOISTURE AND TEMPERATURE
063	Qiang Huang	The variation of tillage speed and its effect on tillage erosion
076	Sukhwinder Bali	An Evaluation of Natric Soil Characterization Data in North Dakota: A Challenge for Contemporary Interpretation
077	A.W. Gillespie	Biochemical characterization of three soil profiles across an eroded prairie catena
078	A.W. Gillespie	Detecting biochemical signals in permafrost soil organic matter
037	Ross McQueen	Increasing the Accessibility of Extension Information on the Internet
026	Louise Barthod	Sediment colour analysis by UV-vis and NIR reflectance spectrometry, a new fingerprinting method to identify sediment sources
035	Nicolas A Jelinski	Meteoric Beryllium-10 as an in-situ tracer of landscape change due to land-use: theoretical considerations and case-study
055	Cenwei Liu	Dynamics of sediment particle size in the Tobacco Creek Watershed
040	Ann-Marie Fortuna	Soil Health, Land Management and Remediation of Sodicity
057	Carolyn Baldwin	Particle Size and <sup>137</sup> Cs Characteristics of Wind Eroded Sediments in Southern Alberta
086	David Lobb	Unravelling soil erosion processes within agricultural fields, the upland sources of sediments from agricultural watersheds
087	David Lobb	All fats are not equal: Considerations when using fatty acid biomarkers in compound-specific stable isotope soil and sediment tracing

088	David Lobb	Preliminary assessment of sediment sources in the Lower Little Bow River watershed using 137Cs as a tracer
089	David Lobb	The effectiveness of small-scale headwater storage dams and reservoirs on stream water quality and quantity in the Canadian Prairies
090	Halya Petzold	Channel morphology of the Tobacco Creek watershed in southern Manitoba
091	Brittany McWhirter	Determination of the bedrock stratigraphy of the South Tobacco Creek area in the Pembina Hills portion of the Manitoba Escarpment using field investigation, LIDAR and photo imagery

**Brown text:** Graduate Student (45 total)

011	AGGE
001	GR
006	NCLUE
009	Organic Amendments
029	Soil Ecology
026	EFF