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Rob Janzen, VP Western Canada Operations
Coaldale

EXPERTISE: (Summary of qualifications)

- Research in Biological and Environmental GHG Processes
- Development and Assessment of ISO-based GHG Quantification Protocols for Agriculture and Energy Sectors
- Strategic GHG Management Advice to Clients in Agriculture and Energy Sectors
- Assessments of Agriculture Practices and Energy Technologies for Mitigation of GHG Emissions
- Assessments of GHG Projects and Verifications
- Verifications of GHG Inventories under the Alberta Specified Gas Emitters Regulation

PROFILE:
Robert Janzen is the VP of Western Canada Operations for ClimateCHECK. Rob brings to ClimateCHECK highly technical expertise and experience concerning greenhouse gas (GHG) dynamics associated with agricultural and environmental systems.

In his education and research, Rob focused on the biological and physical controls on elemental cycling in soil. In his M.Sc. thesis, Rob investigated the physical aspects of carbon and nitrogen transformations in soils, and the consequences of these for the stability of soil organic matter and soil structure. Rob's Ph.D. dissertation focused on the physical and biological controls regulating the microbial communities involved in element cycling in soil. As a Research Associate at the University of Alberta, Rob planned and implemented research concerning recycling of nutrients by composting dairy manure. This involved a multi-disciplinary team of scientists, including scientists focusing on the emission of N_2O from soil and the sequestration of carbon in soil. These research activities led to 10 peer-reviewed scientific publications and many conference presentations. This foundation of education and research enables Rob to provide advanced quantification and verification of the emissions of carbon dioxide (CO_2), methane (CH_4) and nitrous oxide (N_2O) from agricultural and environmental systems, and the sequestration of carbon (C) in soil. These competencies in agricultural and environmental GHG dynamics are also essential to comprehensive life cycle analyses of bio-products and bio-energy.

After the research career and before joining ClimateCHECK, Rob fulfilled a number of senior positions in agricultural production and environmental consulting enterprises. In 2004, Rob was engaged as the lead consultant in the development of the first ISO-based agricultural GHG reduction quantification protocol developed under the direction of the federal government in Canada.

EXPERIENCE:

ClimateCHECK

Leading greenhouse gas (GHG) management services and solutions company

VP Western Canada Operations, June 2007 to Present

Currently, Rob manages a number of ClimateCHECK engagements. These include: (1) development of a protocol to quantify GHG emission reductions from dairy farms in Canada, (2) assessment of opportunity to generate GHG reduction credits from a biomass-to-energy facility, (3) validation of a protocol to quantify offset credits from capture and destruction of methane from livestock manures, (4) compilation of scientific knowledge to support development of a protocol to quantify GHG emission reductions through more effective use of nitrogen fertilizers, (5) analysis of opportunities to generate GHG reduction credits by avoided change of land use, and (6) documentation for GHG emission reduction credits from energy efficiency projects of a multi-national supplier of retail and commercial energy products.

Also, Rob has contributed to verification of a number of GHG emissions reports from regulated facilities under the Alberta Specified Gas Emitters Regulation. And, Rob represents ClimateCHECK as a strategic advisor to a major corporation in the North American oil and gas industry.

Rob serves as the primary contact for clients of ClimateCHECK from the Alberta oil and gas sector.

Agrologics Consulting Inc, Coaldale, Alberta
Innovative Agricultural and Environmental Consulting Firm

Founder and President — March 2004 to May 2007.

In this role, Rob focused on application of the ISO 14064-2 standard to GHG reduction and removal projects and protocols in agriculture. Rob worked as the independent consultant to the development of ISO 14064-based offset protocols for the federal and the Alberta offsets programs. This involved contributing to the development of the 'Pork Protocol' for the Pork Technical Working Group, the first GHG reduction quantification protocol under the National Offsets Working Group in Canada, and also to the development of the 'Default Tillage Protocol' with the Soil Management Technical Working Group. To enhance his understanding of the ISO requirements, Rob completed the 5-day GHG Validation & Verification course offered by Environment Canada and TEAM.

In addition, Rob completed an assessment of the GHG implications of a federal program to promote perennial cover on marginal lands, and contributed to efforts to evaluate a simulation tool to predict C sequestration in soil.

Swine Farm, Coaldale, Alberta
Family Farm

Co-Founder and Managing Partner —June 1997 to March 2004 (Full-time), April 2004 to January 2008 (Part-time)

Rob fulfilled all aspects of the administration and operation of a farrow-to-finish swine enterprise. This involved (1) negotiation with financial institutions, (2) interaction with feed suppliers, (3)

implementation of herd health strategies, (4) maintenance of facilities, (5) supervision of staff, and (6) husbandry of animals (including feeding, breeding, birthing, and shipping).

NEMCO, Coaldale, Alberta
Nutritional, Environmental, and Management Consulting Firm

Co-Founder and Director — September 1996 to December 2002

As one of the principles In NEMCO, Rob served on a part-time basis to provide consulting support to a range of clients. The consulting services ranged from assisting farmers to obtain building permits for intensive livestock operations to providing technical expertise to a large-scale composting enterprise.

University of Alberta, Edmonton, Alberta
Leading Teaching and Research Institution

Research Associate — Sept 1992 to March 1996

At the University of Alberta, Rob interacted with a multi-disciplinary team of researchers to plan, implement, and interpret research pertaining to carbon and nitrogen cycling, cold climate composting, and soil remediation. The purpose of this work was to investigate emissions of CH_4 and N_2O from compost and soil. In addition, Rob assisted in the teaching of classes and supervision of graduate students.

EDUCATION AND TRAINING:

- Bachelor of Theology (Canadian Mennonite Bible College, Winnipeg, 1981)
- Bachelor of Science in Agriculture (University of Manitoba, Winnipeg, 1985)
- Master of Science (Soil Science, University of Manitoba, Winnipeg, 1988)
- Doctor of Philosophy (Soil Science, University of Alberta, Edmonton, 1993)
- Professional Agrologist (P.Ag.)
- Agriculture Institute of Canada — Member