

Presenters Contact List – 2006 Manitoba Tile Drainage Workshop

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Curtis Cavers received his agriculture degree majoring in soil science in 1992 and Master's in Soil Science in 1996 – both from University of Manitoba. He has worked for the province's agriculture department since 1996 and is now called a Land Resource Specialist with Manitoba Agriculture, Food & Rural Initiatives. He is originally from a farm at La Riviere, MB. Currently, he and his wife Denise live northwest of Elm Creek, MB (which is located on Almasippi and Long Plain soils).

Curtis Caver's presentation was the first part of the topic entitled, **Manitoba Soil Characteristics Related to Tile System Design. (Module 2.1a, part one)**

Graham Copithorn, P. Eng. is a Senior Design Engineer in the Irrigation and Drainage Unit of PFRA. He is a civil engineer, and graduated from the University of Saskatchewan in 1978. He has worked in the Regina office of PFRA for the past 27 years. He has designed many pump stations for projects in the three prairie provinces over the course of his career.

Graham Copithorn's presentation was entitled **Pump Station Design and Installation. (Module 4.2)**

Michelle Harland has a M.Sc. in Agriculture and Soil Science and has worked with various divisions of PFRA since 1986. Recently she has taken on the role as Senior Soil Resource Specialist for Nutrient Management issues in the Soil Resources Division of PFRA. Michelle works out of the Winnipeg PFRA Office. Among other things, her work experience includes soil salinity mapping and monitoring, irrigation suitability assessments and tile drainage applied research. Michelle also works for the International Projects Directorate of PFRA on a half time basis.

Michele Harland's presentation was entitled **Nitrogen Management and Tile Water Quality. (Module 2.1c)**

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Jim Hicks B.Sc. P.Ag. is a Professional Agrologist working with AXYS Agronomics, A Division of AXYS Environmental Consulting Ltd. He has over 25 years experience in the agricultural industry as an agronomist, consultant, technologist, and manager of an agricultural/environmental laboratory. His knowledge of both Federal and Provincial agro-environmental regulations and legislation is an asset to AXYS. Jim has served as project manager on over 20 irrigation land suitability projects for PFRA in Manitoba over the last five years with AXYS. His expertise lies in the assessment of land capability, biophysical inventory, and the land management requirements for a sustainable project. Jim comes from a farming background in High Bluff, Manitoba.

Jim Hick's presentation was entitled **Report on the 2005 Tile Performance Survey in Manitoba. (Module 5.3)**

Dr. Hans Kandel is a Regional Extension Educator with the University of Minnesota. He has his office at the Crookston Regional Extension Center. He received his Masters of Science degree from the University of Reading and his PhD from NDSU. He has developed innovative Extension programs for producers in Northwest Minnesota that blend agronomy, crop and soil science, and economics. He and his colleagues designed the crop diagnostics program where extensive diagnostic interviews were conducted with many producers in the region. One of the outcomes of this program was the realization of the need for better on-farm water management. Dr. Kandel's Extension programs address the needs of traditional crops (small grain, soybeans, etc.) as well as alternative crops such as, field peas and buckwheat. He also conducts applied research with wheat, oats, soybeans, alternative crops and tile drainage. Kandel brings extensive international experience to his position from his work with farmers and farming communities in developing countries as well as Europe.

Dr. Kandel's presentation was entitled, **How Much Can I Afford to Invest in Tile Drainage and Remain Profitable? (Module 1.3)**

Andy Nadler is the agricultural meteorologist within the Crops Knowledge Centre of Manitoba Agriculture, Food and Rural Initiatives in Carman. He works with meteorological monitoring, agrometeorological modeling related to various crops and diseases, and with geographic information systems (more commonly known as GIS). He has a BSc in geography and is finishing off his MSc in soil science which consists of producing an updated agro-climatic risk assessment of crop production in western Canada.

Andy Nadler's presentation was entitled **Applying Weather Related Risk to Cropping Systems. (Module 5.1)**

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Geoff Reimer was born and raised on hobby farm near Stonewall, MB. He is a Certified Engineering Technologist with Manitoba Water Stewardship. He graduated from the Water Resources Engineering Technology Program in Moose Jaw SK in 1999. He has a Bachelor of Science from the University of Winnipeg. Geoff started working for Water Resources in summer of 1997 as a co-op student in the Flood Proofing Program, which is a Federal/Provincial Program. After graduation he was hired on again by Province of Manitoba for the Flood Proofing Program. Geoff was then hired by Water Rights Licensing/Irrigation Water Use Licensing. He worked in this capacity for two years and was then hired as Assistant Regional Water Manager, in charge of Drainage Licensing for the Red River Region.

Geoff Reimer's presentation was entitled **Drainage Permits. (Module 1.1b)**

Steve Sager, P. Ag. grew up on a mixed farm near Morden, MB. He graduated from the University of Manitoba with a degree in Agriculture in 1989, majoring in Agronomy. Steve has worked with PFRA for the last 14 years as a soil resource specialist working with farmers and producer groups addressing soil water conservation issues. Steve is currently providing support to sustainable irrigation and drainage in Manitoba and across Canada.

Steve Sagers's presentation was entitled **Salinity Management – 10 years later. (Module 2.1d)**

Dr. Gary Sands is an Associate Professor and Extension Engineer in the Dept. of Biosystems and Agricultural Engineering at the University of Minnesota. Gary conducts research and extension projects throughout the State to investigate drainage design and management practices that address both production and water quality goals. He collaborates with State agencies, local governments, landowners, conservation professionals and industry partners to address issues pertinent to artificially drained lands. Gary is a native of eastern US (specifically Delaware) and has worked in soil and water engineering for the past 25 years in several states and countries.

Dr. Gary Sand's presentations were entitled;

1. **Design Session I: Soil Water, Tile Spacing & Depth, Drainage Coefficients and Design Tools. (Module 1.2)**
 2. **Design Session II: Comprehensive Tile Drainage Design Problem. (Module 4.1)**
 3. **Design IV: Small Group Design Exercise. (Module 6.1)**
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Bruce Shewfelt, M.Sc., P.Eng., is Lead of the Irrigation and Drainage Unit, for the PFRA, a branch of Agriculture and Agri-Food Canada, in Morden, Manitoba. Bruce has a M.Sc. in Civil Engineering from the University of Manitoba, specializing in Water Resources. Bruce has worked for PFRA for 22 years. Bruce's current responsibility is technical lead for sustainable irrigation and associated sub-surface drainage infrastructure, with emphasis on environmental impact and resource protection, engineering design and construction, irrigation efficiency and water resource management. Bruce has worked extensively with producers throughout all phases of planning and developing group and individual irrigation projects, and currently has projects from coast to coast in Canada.

Bruce Shewfelt's presentations were entitled;

- 1. An Introduction to Conservation Drainage Systems. (Module 1.1a)**
- 2. Corn Prowers project – 10 years later. (Module 2.1b)**
- 3. Introduction to Planning a Tile Drainage System. (Module 5.4)**

Dr. VanGulck completed his bachelor's degree in Civil and Environmental Engineering from the University of Western Ontario and he has a Ph.D. in Geoenvironmental and Geotechnical Engineering from Queen's University. He is currently an Assistant Professor in the Department of Civil Engineering at the University of Manitoba and registered as a Professional Engineer in the Province of Manitoba.

Dr. VanGulck's research interests involve: barrier system design for landfills and manure lagoons; contaminant hydrogeology; tailings management; soil-water chemical interactions; and clogging of agricultural and landfill drains, geotextiles, and water wells. He has collaborated with industry, government, policy makers, engineers, geologists, chemists, and microbiologists to solve multi-disciplinary problems.

Dr. VanGulck's presentation was entitled **Clogging & Performance Deterioration of Agricultural Drains. (Module 5.2)**

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David Whetter M.Sc. P.Ag. is a Professional Agrologist and Soil Scientist working with AXYS Agronomics, A Division of AXYS Environmental Consulting Ltd. David brings to AXYS a variety of expertise in soil classification and mapping, soil-landscape relationships, soil-water interactions, and agricultural/environmental land management. He has gained valuable experience conducting numerous soil surveys and land assessments for irrigation developments and assessing the impacts of developments on the capability of agricultural lands. David's practical background in the agricultural industry, field experience and scientific training has proven to be an excellent combination of experience. David's family farms in the Hartney area.

David Whetter's presentation was the second part of topic entitled **Manitoba Soil Characteristics Related to Tile System Design. (Module 2.1a part two)**

Round Table Discussion - (Module 3.1)

Members of the Round Table included;

- **Bob Bartley** – Producer from the Roland area.
- **Cal & Jim Bergen (Whitewater Drainage)** – Commercial Tiling Contractor based out of Morden and Portage la Prairie
- **Keith Loewen (K & S Tiling)** – Commercial Tiling Contractor based out of Rosenort
- **Gord Unger (Ideal Pipe)** – Commercial Pipe Manufacturer based in Carman
- **Chris Unrau (Kroeker Farms)** – Producer from the Winkler/Graysville area
- **Stan Wiebe (Beaver Creek Farms)** – Producer from the MacGregor area
- **Sheldon Wiebe (J. P. Wiebe & Sons)** – Producer from the Macgregor area

The members of the Round Table took questions from the moderator as well as from the floor.