

# Advanced Agronomy Conference

November 24 & 25, 2010  
Executive Royal Inn—Nisku, AB

Presented by:  
Certified Crop Advisers  
in collaboration with  
Agricultural Research and Extension Councils of Alberta

A conference for Crop Advisers, farmers, industry partners, and anyone interested in learning the latest crop production ideas and techniques in the agriculture industry today. Learn what it takes to be the Guinness World Record holder for wheat yield, find out how Australian farmers are getting the most out of their challenging soils, learn about the latest research in Western Canada, and on Alberta farms.

## WEDNESDAY, NOVEMBER 24

10:00am—1:00pm	Registration
1:00pm—1:15pm	Welcome
1:15pm—2:15	Opening Keynote Session <b>Chris Dennison</b> — New Zealand Farming: Intensive Grain Production I
2:15pm—2:45pm	Break
2:45pm—3:45pm	Concurrent Session #1 a) <b>Kelly Boles &amp; Farmer</b> b) <b>Tom Wolf</b> c) <b>Ken Coles</b>
3:45pm—4:00pm	Break
4:00pm—5:00pm	Concurrent Session #2 a) <b>Steve Larocque</b> b) <b>Michael Ayers</b> c) <b>Jay Bruggencate</b>
5:00pm—6:00pm	Free Time—No Host Bar
6:00pm—7:00pm	Banquet (provided)
7:15pm—8:30pm	Evening Chat Session Informal Q&A with all speakers

## THURSDAY, NOVEMBER 25

7:00am—8:00am	Breakfast (provided)
8:00am—8:15am	Welcome
8:15am—9:15am	Opening Keynote Session <b>Chris Dennison</b> —New Zealand Farming: Setting the Guinness World Record for Wheat Yield
9:15am—9:45am	Break
9:45am—10:45am	Concurrent Session #3 a) <b>Michael Ayers</b> b) <b>Tom Wolf</b> c) <b>Ken Coles</b>
10:45am—11:00am	Break
11:00am—12:00pm	Concurrent Session #4 a) <b>Steve Larocque</b> b) <b>Kelly Boles</b> c) <b>Jay Bruggencate</b>



## ACCOMMODATIONS

### Executive Royal Inn

Conference Hotel \*

1.888.986.3770 or  
780.986.1840

### Ramada

1.866.700.4007  
780.980.0986

### Holiday Inn Express

1.877.955.1500 or  
780.955.1000

### Nisku Inn

1.800.661.6966 or  
780.955.7744

### Western Budget

780.986.1920

\* A limited number of rooms have been set aside, please mention Advanced Agronomy Conference.

# High caliber speakers you don't want to miss!

## KEYNOTE SPEAKER

### CHRIS DENNISON—NEW ZEALAND



Chris farms 440 Ha of arable crops on irrigated land north of Oamaru on the east coast of the South Island of New Zealand. They grow a mix of wheat, barley, canola, ryegrass and peas. He also owns a 185 Ha dairy farm on an adjacent property that milks 520 cows. Chris and his wife Kay have two children. His background comes from mixed livestock operations running sheep and cattle to a specialist regime based on an arable rotation. Chris uses different establishment techniques ranging from plough inversion to min-till. In 2003 Chris established a new **world record for wheat production** growing a crop that yielded over 220 bu/ac. Since then, he has achieved yields over 237 bu/ac. In 2004 Chris and his wife Kay were awarded the FMG A C Cameron Rural Excellence Award (NZ Farmer of the Year). Chris' passion is the growing of high yielding crops aiming to set new levels of production.

Chris graduated from Lincoln University with a B.Com Ag. He is a graduate of the Rabo Bank "Executive Development Program". Chris has held positions in Federated Farmers, and the electoral college of United Wheat Growers, Foundation of Arable Research and the South Island Barley Society. He is Chairman of the Lower Waitaki Irrigation Co and the driving force behind the newly established Waitaki Irrigators Collective. Chris is a director of Ravensdown Fertilizer Coop an international fertilizer manufacturer and retailer.

### NEW ZEALAND FARMING - INTENSIVE GRAIN PRODUCTION 1 (1.0 CM CEU)

**Session description:** Agriculture in New Zealand, its climate, diversity and highly intensive grain production.

### NEW ZEALAND FARMING - INTENSIVE GRAIN PRODUCTION 2 (1.0 CM CEU)

**Session description:** Agronomy and husbandry techniques used to persuade wheat crops to yield over 220 bushels an acre.

## CONCURRENT SESSIONS GLOBAL INSIGHT

### MICHAEL AYERS—ADELAIDE, AUSTRALIA

Michael is a soil research agronomist based in South Australia working for a private research company called Injekta Pty Ltd. Injekta are involved in many soil research projects including soil carbon accumulation, herbicide degradation, liquid fertilizer research, inoculation, in field agronomy and terrain productivity assessment. The business is primarily funded by individual farmers and University research allocations. Michael grew up on a 5000 Ha No-Till arable cropping operation owned by his family in the South West of Western Australia. After graduating from Marcus Oldham College in 1990 he has worked primarily with broad-acre agricultural production systems as a producer, agronomic advisor and researcher of farmed soils. Most of Michael's soil research work is involved with the science behind moving medium rainfall cropping soils to a greater level of resilience with less disturbance and greater output. He has looked at agricultural management in many parts of the world and has studied the soil conditions that determine the land's capacity.

Michael is a passionate advocate of appropriate and deliberate soil management. Everything is everywhere and the environment selects. Establishing his first rock collection at three is probably enough evidence that says that soils have been a big part of Michael's life for many years. It is Michael's firm belief that soil is the mainstay of all agricultural profit. Michael explains well the theory, the evidence and arguments for soils capacity to further productive output.

### ROW LOADING AND THE FERTILIZER ROTATION CONCEPT (1.0 SW CEU)

**Session description:** Michael will explain and simplify the *soil-plant-soil* exchange processes required to grow more grain (cereal, brassica, legume) providing visual evidence and actual field data from Australian agricultural operations. The presentation will be very much from a farm manager's perspective and will offer a well structured package of information for farmers to understand and apply to their own management systems. Soil and Plant data from Alberta will also be included to make the concepts relevant to local conditions.

### EARLY ADOPTER OR EARLY ADAPTER? - THE 8 KEYS TO PROFITABILITY WITH NUTRIENT MANAGEMENT (1.0 NM CEU)

**Session description:** Michael will discuss the individual and interactive role of key major and trace elements necessary for grain production, discuss the available forms of each nutrient and explain why crop production is all about enzymes !!. This session is the nuts and bolts of each element and why such a small amount can go such a long way!!

## CONCURRENT SESSIONS REGIONAL RESEARCH

### TOM WOLF, Ph.D

#### PRECISION SPRAYS OF NON-SELECTIVE HERBICIDES IN NARROW ROW CROPPING SYSTEMS (1.0 PM CEU)

Tom was raised on a grain farm in the Red River Valley of Manitoba and has been actively involved in farming for most of his life. He obtained BSA (1987) and M.Sc. (1991) degrees in Plant Science at the University of Manitoba, and a Ph.D. (1996) in Agronomy at the Ohio State University. At the Saskatoon Research Centre, Tom studies sprayer technology, focusing on spray drift, pesticide efficacy, and sprayer tank cleanout. He supervises undergraduate and graduate students at the University of Saskatchewan where he is adjunct professor in the Department of Civil and Geological Engineering. Tom is Past President of the Canadian Weed Science Society, is an active member of the Canadian Society for Bioengineering and the American Society of Agricultural and Biological Engineers, and serves on the Board of the Saskatchewan Soil Conservation Association. One of Tom's priorities is to help applicators improve sprayer performance, and he enjoys writing articles, participating in workshops, and consulting one-on-one to achieve this.

**Session description:** Tom will be discussing a new precision spraying technique called spraying between the rows. He will discuss the role of droplet size and the various nozzle options used to apply this new concept in narrow row cropping systems. Tom discovered this concept in Australia where they use hooded sprayers to spray non-selective herbicides between the cotton rows. In Western Canada, it would be without the hoods, and with narrower row spacing. This approach would make it possible to use non-selective herbicides in narrow row systems, using conventional sprayers. The idea was used in the Willamette valley where they use sprays to thin out self-seeded ryegrass stands to maintain yields over longer periods. The concept could be a great fit for weed control in cereal, pulse, or oilseed systems on 10 or 12" centres.

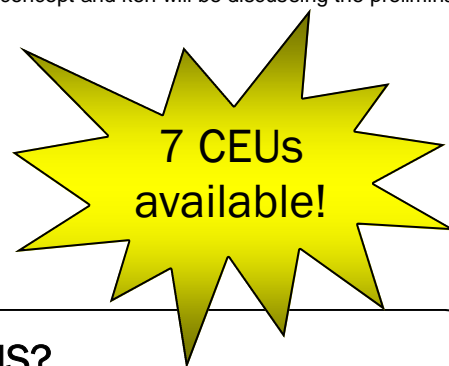
### KEN COLES M.Sc., B.Sc., P.Ag.

#### PRECISION TOOLS FOR ON-FARM RESEARCH; SEEDING BETWEEN THE LINES (1.0 CM CEU)

Ken is the General Manager for the Southern Applied Research Association, a producer directed organization based out of Lethbridge, Alberta. With 15 years of production related research experience, Ken is eagerly growing the impact of SARA through practical, unbiased, applied research and extension. To accomplish SARA's motto, "Growing New Ideas", SARA is working with innovative and progressive producers to advance production and management practices that support a profitable and environmentally conscious farm.

**Session description:** An area of particular interest for Ken is developing the utility of on farm research using precision agriculture tools such as gps guidance, yield mapping and related software. GPS technology also provides the opportunity for innovation practices such as inter-row seeding. The premise is that with accurate guidance systems, you can effectively seed between the rows of last year's stubble. This could potentially allow for improved emergence due to better seed placement and seed to soil content, higher soil temperatures, improved micro-climate and seeding protection from more standing stubble. SARA is the preliminary stages of evaluating this concept and ken will be discussing the preliminary results from his research in 2010.

Check out the **ARECA poster presentation** to learn about the interesting research projects taking place around Alberta, earn an extra CEU!



#### QUESTIONS?

For more information on the conference, contact:

Ellen Anderson	403.650.9196
Ty Faechner	780.416.6046

*Limited space available.*

**Register today!** (see reverse for details)

## CONCURRENT SESSIONS LOCAL INSIGHT & APPLICATION

### KELLY BOLES

#### NON INVERSION DEEP TILLAGE STRATEGIES TO ALLEVIATE COMPACTION (1.0 SW CEU)

Kelly was born and raised on a commercial beef cattle and grain farming operation near Three Hills, AB. His wife Joan teaches Grade 1 in Three Hills and they have 3 children. He graduated U of A in 1999 with a B. Sc Ag and has accreditations of CCA, P.Ag. and a Pesticide Applicators License. Kelly spent four years in ag retailing and eight years as a consulting agronomist in central Alberta. Kelly owns and operates Center Field Solutions Ltd., a company he established in 2004. The company's focus is on using various strategies to maximize production, review and evaluate crop practices and equipment performance.

**Description:** Kelly will discuss how to improve soil aeration, water infiltration and how non-inversion deep ripping can benefit producers and integrate nicely with newer equipment in reduced tillage seeding systems. He will focus on the use of high resolution NDVI imagery and compaction mapping as a tool to develop target treatment areas. He will also provide his experience with the AgroPlow non-inversion deep ripper and describe the challenges and successes of deep ripping to improve yield.

### STEVE LAROCQUE B.Sc., CCA

#### MAKING THE LEAP TO CONTROLLED TRAFFIC FARMING (1.0 CM CEU)

Steve is an independent crop advisor based out of Three Hills, Alberta. As owner of Beyond Agronomy, he manages over 30,000 acres of cropland and publishes Beyond Agronomy News, a weekly crop production and grain market newsletter with his wife Vanessa. He also farms with his brother-in-law north of Drumheller and is managing partner of Preferred Carbon Land Management.

**Session description:** Steve is a 2007 Nuffield Scholar and has spent the last few years traveling the globe in search of controlled traffic farming systems. In 2010, Steve along with his family Mitch and Sam Currie converted their equipment and farm to run on permanent tram lines in a controlled traffic system. Steve will discuss the modifications they made on their equipment and the trials and tribulations they went through to develop this new and unique system of farming.

### JAY BRUGGENCATE, P.AG., CCA

#### IN-FIELD TELEMATICS & THE INTEGRATION OF GPS EQUIPMENT CONTROLLERS, WIRELESS MOBILE COMMUNICATION TECHNOLOGY (1.0 CM CEU)

Jay grew up on a grain and oilseed farm near Coronation, Alberta. After graduation from the University of Saskatchewan with a Bachelors of Science in Agriculture, Jay was employed full time with a major crop protection company while continuing to farm at Coronation. In 2004 Jay started his own crop consulting business in the Lacombe, Alberta area. Jay began working with Farmers Edge and Variable Rate Fertility in 2007. Jay currently provides consulting services like precision ag data management, variable rate planning, manure management planning, and crop scouting services for many clients throughout central Alberta. In addition Jay manages the Western Prairies region for Farmers Edge.

**Session description:** Farmers now have the ability to utilize the computerized controllers they have already invested in much better. Advantages include: A) Remote equipment and controller diagnostics and repair, B) Real time remote data synchronization by sharing real time as-applied data with other computers, C) Real time monitoring of field operations by tracking progress of multiple units from anywhere. D) Secure back up of all field data, store and organize all farm data on the farmers home computer and instantly share important agronomic data with consultants or equipment dealers.

*Detach this form*

## REGISTRATION FORM: ADVANCED AGRONOMY CONFERENCE 2010

Executive Royal Inn, Nisku/Leduc ~ November 24 & 25, 2010

**REGISTRATION DEADLINE  
NOVEMBER 15, 2010**

Name(s)

Address

Phone:

Fax:

Email:

**Registration Fee for CCA members**

CCA # \_\_\_\_\_

\$150 per person (includes GST)

X \_\_\_\_\_ person(s)

For a total of \$ \_\_\_\_\_

**All Non CCA members**

\$175 per person (includes GST)

X \_\_\_\_\_ person(s)

For a total of \$ \_\_\_\_\_

To register, return this form completed, along with a cheque payable to ARECA to:

211-2 Athabasca Avenue, Sherwood Park, Alberta T8A 4E3