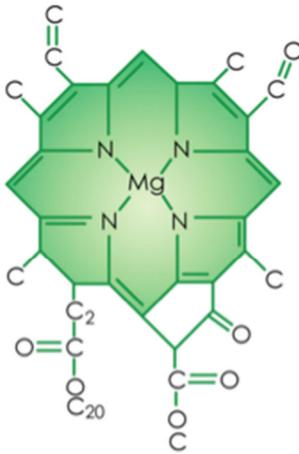


1st Canadian Soil, Crop, Animal and Human Magnesium Nutrition Workshop
Hilton Garden Inn, Saskatoon, SK - November 29, 2011

Agri-Trend Agrology and ATP Nutrition are joining forces to host the first Canadian Magnesium Workshop on Tuesday November 29, 2011 just before the Agri-Trend Farm Forum Event. More than 250 people will descend on Saskatoon to learn everything they need to know about the importance of Magnesium (Mg) nutrition and management. International speakers will provide information that will allow integration of many aspects of Magnesium management in soils, fertilizers, plants, animal and human systems.

Why focus on Magnesium? Well . . . there are many reasons but . . .



Plant Chlorophyll

Mg is central atom of the chlorophyll molecule. That should be reason enough!

If you look closely at any chlorophyll molecule on this planet, you will find a Mg atom at its very core. If you compare chlorophyll and hemoglobin molecules, you will be astounded by their similarity. Once you've done that, the much-quoted Old Testament phrase "All flesh is grass" may bring on a new meaning. I have looked at a lot early season crop tissue analyses over these past few years and >80% of them have Mg levels well below expected optimal range.

In plants, Mg is also a carrier of phosphorus, an enzyme activator, a constituent of many enzymes, aids in starch translocation and sugar synthesis, helps with nutrient uptake control, increases iron utilization and assists N fixation in legume nodules. Mg also appears to be a major abiotic stress-fighting nutrient. There is plenty of similar evidence of its role in fighting stress in both animals and humans.

Magnesium is critical to plant, animal and human health. More than 56% of North Americans consume insufficient Mg in their diets. Imbalances in dairy cows can cause several maladies like grass tetany. As we put increasing stress on our production systems, it makes sense to be proactive.

Agenda

Time	Topic	Speaker(s)
1:00 pm	Introductions and Magnesium Situation Overview	Jarrett Chambers, ATP Nutrition, Oak Bluff, Manitoba, Canada
1:30 pm	Magnesium Management and Status of Canadian Soils	Greg Patterson, A&L Labs, London, Ontario, Canada
2:10 pm	Soil Factors Affecting Root Uptake of Magnesium	Dr. Andreas Gransee, K+S Kali, Kassel, Germany
2:50 pm	Coffee and Biological Break	
3:10 pm	Role of Magnesium in Plant Growth	Dr. Ismail Cakmak, Sabanci University, Istanbul, Turkey
3:50 pm	Role of Magnesium in Animal Health	Ron Piett, A&L Labs, London, Ontario, Canada
4:30 pm	Role of Magnesium in Human Nutrition and Health	Dr. Andrea Rosanoff, The Center for Magnesium Education & Research, Paho, Hawaii
5:10 pm	Synthesis and Conclusions	Elston Solberg, Agri-Trend Agrology, Edmonton, Alberta, Canada

There is **NO** cost to attend but organizers request that you RSVP

by calling Jill DeMulder at (780) 819-5348