



# NITROGEN CYCLING & TRACE ELEMENT MANAGEMENT

## 3 DAYS 3 LOCATIONS

**BENDIGO**  
MONDAY,  
APRIL 11, 2016

**OUYEN**  
TUESDAY,  
APRIL 12, 2016

**MURRAY BRIDGE**  
WEDNESDAY,  
APRIL 13, 2016

The GRDC funded technical workshop about nitrogen cycling and trace element management is for advisers, agronomists, consultants and growers.

This workshop will provide information and technical advice for determining organic matter cycling in relation to nitrogen nutrition, paddock planning and fertiliser rates, plus trace element identification and management.

A full program is available at  
[www.agcommunicators.com.au](http://www.agcommunicators.com.au)

### **COST**

\$88 (incl GST)

### **REGISTRATION**

Due by  
Monday, April 4, 2016  
[www.agcommunicators.com.au](http://www.agcommunicators.com.au)

### **ENQUIRIES**

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## Nitrogen Cycling & Trace Element Management

April 11, 12 & 13, 2016

A one-day workshop for agronomists, advisers, consultants and growers.

This workshop will provide information and technical advice for determining organic matter cycling in relation to nitrogen nutrition, paddock planning and fertiliser rates, plus trace element identification and management.

Location:	Bendigo	Ouyen	Murray Bridge
Dates:	Monday April 11	Tuesday April 12	Wednesday April 13

8:15 am	<b>Registration:</b> <ul style="list-style-type: none"> <li>Collect name tag and manual</li> <li>Have a cuppa and a chat</li> </ul>	<b>Deb Baum</b> Project Administrator AgCommunicators
8:45 am	<b>Welcome:</b> <ul style="list-style-type: none"> <li>Review pre-survey questions</li> <li>Priority outcomes for the day</li> </ul>	<b>Belinda Cay/Deanna Lush</b> Director AgCommunicators
9:00 am	<b>Welcome on behalf of GRDC:</b> <ul style="list-style-type: none"> <li>Update on GRDC Investment in the Southern Region</li> <li>More Profit from Crop Nutrition Initiative</li> </ul>	Bendigo: <b>Jon Midwood</b> Ouyen: <b>Rob Sonogan</b> Murray Bridge: <b>Michael McLaughlan</b>
9:15 am	<b>N placement and timing, role of testing:</b> <ul style="list-style-type: none"> <li>Yield and quality effect</li> <li>Efficiency and effectiveness</li> <li>Identify options for N placement and timing</li> <li>Effects on emergence, fertilizer use efficiency and weeds</li> </ul>	<b>Dr Rob Norton</b> Regional Director Australia & New Zealand International Plant Nutrition Institute, Horsham
9:45 am	<b>Increasing the sources of plant available N:</b> <ul style="list-style-type: none"> <li>Residue retention</li> <li>WUE</li> <li>Carbon to nitrogen ratio</li> <li>Supply and timing</li> </ul>	<b>Dr Jeff Baldock</b> Soil Scientist CSIRO
10:15 am	<b>Morning tea</b>	

10:45 am	<b>The effect of P nutrition on yield:</b> <ul style="list-style-type: none"> <li>• Phosphorous use efficiency in wheat and barley</li> <li>• Genetics behind high phosphorus use</li> <li>• What's new with P nutrition</li> <li>• Impact of grain quality and its nutrient levels on seed value for next year's crop</li> </ul>	<b>Dr Glenn McDonald</b> Soil Science, Agronomy, Agricultural Plant Science University of Adelaide
11:15 am	<b>In crop nutrients:</b> <ul style="list-style-type: none"> <li>• Data base of crop nutrients trials</li> <li>• Phosphorous and nitrogen</li> <li>• Soil test / crop response</li> <li>• MPCN project update</li> </ul>	<b>Tony Cox</b> National Coordinator Crop Nutrition NSW DPI
12:00 noon	<b>Nitrogen gains and losses in cropping:</b> <ul style="list-style-type: none"> <li>• Rotations</li> <li>• Rates</li> <li>• Retention</li> </ul>	<b>Dr John Angus</b> Adjunct Professor, CSU and Honorary Research Fellow CSIRO Agriculture
12:30 pm	<b>Lunch</b>	
1:00 pm	<b>Trace Element Management:</b> Locations, crop types, symptoms, diagnosis and treatment	
	<ul style="list-style-type: none"> <li>• Zinc</li> <li>• Copper</li> </ul> <b>Dr Ehsan Tavakkoli</b> Environmental Soil Scientist and Crop Physiologist NSW DPI	<ul style="list-style-type: none"> <li>• Manganese</li> <li>• Iron</li> <li>• Boron</li> <li>• Molybdenum</li> </ul> <b>Dr Nigel Wilhelm</b> Research Leader SARDI
2:15 pm	Panel Session	<b>All speakers</b>
2:45 pm	Evaluation and key messages from the day	<b>Belinda Cay</b>
3:00 pm	Close	