

## Quick Links

[Important Dates](#)

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## Current Weather

Saskatoon, SK

Current	Thu Aft
 15°C A few clouds	 21°C A mix of sun and clouds

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[info@rhizo5.org](mailto:info@rhizo5.org)

## Thursday July 11, 2019

### Morning sessions

#### Keynote address (8:30 - 9:30; Salon B & C)

**Michelle Watt:** Rhizosphere dynamics and interventions to increase crop productivity

#### Health break (9:30 - 10:00)

#### Parallel sessions (10:00 - 12:00)

### 21. Mutualisms and symbionts (Gallery A)

**Chairs:** Louise Nelson & Miranda Hart

- 10:00 - 10:30 The fate of fungal biofertilizers – where do they go, and how do they get there?  
M. Hart
- 10:30 - 10:45 Establishment and functionality of arbuscular mycorrhizal communities in the root rhizosphere  
H. Bucking
- 10:45 - 11:00 Microbial community composition and succession in the hyphosphere of an arbuscular mycorrhizal fungus  
B.D. Emmett
- 11:00 - 11:15 Effect of darksidea species on *bouteloua gracilis*: an overview of the mutualism-parasitism continuum  
M.J. Romero-Jimenez
- 11:15 - 11:30 Bidirectional nutrient fluxes in tripartite interactions of *Medicago truncatula* are controlled by plant nutrient demand  
K.R. Cope
- 11:30 - 11:45 Towards the effective breeding and development of improved microbial inocula for better cassava yields in Africa  
M. Thuita
- 11:45 - 12:00 The battle between elite rhizobial inoculants and rabble of residents affecting field pea nitrogen nutrition  
C. Daulagala



## 22. Rhizosphere Processes and Interactions (Gallery B)

**Chairs:** Bobbi Helgason & Navid Bazghaleh

- 10:00 - 10:15 Wheat rhizosphere microbial biomass, composition and enzyme activities in response to glyphosate in the Canadian prairies  
N.W. Lupwayi
- 10:15 - 10:30 Micro-hydrological niches in soils: how mucilage and EPS alter the biophysical properties of the rhizosphere and other biological hot spots  
P. Benard
- 10:30 - 10:45 Root symbionts and soil successional stage influence plant-soil feedback effects on vegetation succession  
K. McMahan
- 10:45 - 11:00 The design and function of the rhizosheath  
S. Rabbi
- 11:00 - 11:15 Hunting for elite Rhizobium strains to maximize biological N fixation by white clover  
S. Shi
- 11:15 - 11:30 Know your neighbour: How neighbour roots dilute soil-borne fungal disease amongst susceptible hosts  
E.A. Ampt
- 11:30 - 11:45 Biotic versus abiotic drivers: disentangling key factors shaping rhizosphere phosphorus speciation along a climate gradient  
S. Spielvogel
- 11:45 - 12:00 Active food web components in grassland rhizosphere networks during nature restoration  
E. Morrien

## 23. Rhizosphere of Cropping Systems (Gallery C)

**Chairs:** Kari Dunfield & Micaela Tosi

- 10:00 - 10:15 Organic management strengthens interkingdom relationships in the soil and rhizosphere of barley  
E. Kuramae
- 10:15 - 10:30 The rhizosphere microbiome: how biodiversity and plant breeding can shape functional traits in response to biotic/abiotic stresses  
S.M. Tsai
- 10:30 - 10:45 Nitrogen complementarity utilization, biological N<sub>2</sub> fixation of soybean and peanuts and N transfer to associated maize in intercropping under field conditions  
L. Li
- 10:45 - 11:00 Crop diversification positively alters the intensity of soil-plant interactions in intensive agrosystems  
S. Mira
- 11:00 - 11:15 Long-term farming practices shape the rhizosphere microbiota and plant health  
D. Babin
- 11:15 - 11:30 Functional root trait based classification of cover crops to support sustainable agriculture

C. Hudek

- 11:30 - 11:45 Engineering root/rhizosphere processes for improving nutrient-use efficiency and yield in Chinese intensive maize-cropping systems  
J.B. Shen
- 11:45 - 12:00 High maize density alleviates the inhibitory effect of mineral N on nodulation of intercropped pea  
C. Zhao

**Closing ceremony (12:15 - 13:30)**

**Student Presentation Awards**

**Rhizosphere 6 Announcement**

**Campus tours (14:00 - 15:00)**

**Prairie Lily Riverboat Cruise (16:00 - 17:00)**

*(prior registration required)*



<https://www.theprairiely.com/index.cfm>

***Tour Includes:***

- Round trip transportation from TCU Place
- Admission to Prairie Lily Cruise
- One-hour cruise along the scenic South Saskatchewan River
- Beverages and snacks are available for purchase