

# Soil Fertility and Nutrient Management Short Course

Hilton Garden Inn, Ames, Iowa

## Tuesday, February 19, 2019

- 8:30 AM **Registration and check-in**
- 9:00 AM **Soil fertility introduction, essential plant nutrients, and nutrient plans**  
*John Sawyer, professor and Extension soil fertility specialist, Iowa State University*
- 9:30 AM **Iowa soils, soil properties and productivity**  
*Lee Burras, professor, Agronomy, Iowa State University*
- 10:45 AM **Break**
- 11:00 AM **Soil sampling and testing**  
*Antonio Mallarino, professor and Extension soil fertility specialist, Iowa State University*
- 12:15 PM **Lunch (provided)**
- 1:00 PM **Cation exchange**  
*John Sawyer, professor and Extension soil fertility specialist, Iowa State University*
- 1:30 PM **Soil pH and liming**  
*John Sawyer, professor and Extension soil fertility specialist, Iowa State University*
- 2:15 PM **Break**
- 2:30 PM **Soil phosphorous and potassium dynamics and management**  
*Antonio Mallarino, professor and Extension soil fertility specialist, Iowa State University*
- 3:45 PM **Soil N dynamics, crop use and diagnostic tools**  
*John Sawyer, professor and Extension soil fertility specialist, Iowa State University*
- 5:00 PM **Course adjourns for the day**

## Wednesday, February 20, 2019

- 7:30 AM **Classroom opens, morning refreshments available**
- 8:00 AM **Site-specific management**  
*Antonio Mallarino, professor and Extension soil fertility specialist, Iowa State University*
- 9:00 AM **Nitrogen management**  
*John Sawyer, professor and Extension soil fertility specialist, Iowa State University*
- 10:15 AM **Break**
- 10:30 AM **Environmental phosphorus management**  
*Antonio Mallarino, professor and Extension soil fertility specialist, Iowa State University*
- 11:30 AM **Secondary and micronutrients**  
*John Sawyer, professor and Extension soil fertility specialist, Iowa State University*
- 12:15 PM **Lunch (provided)**
- 1:00 PM **Manure management**  
*Joel DeJong, Extension field agronomist, Iowa State University Extension and Outreach*
- 2:15 PM **Break**
- 2:30 PM **Nutrient recommendation development**  
*John Sawyer, professor and Extension soil fertility specialist, Iowa State University; Antonio Mallarino, professor and Extension soil fertility specialist, Iowa State University*
- 3:30 PM **Hot topics / round-table discussion**  
*John Sawyer, professor and Extension soil fertility specialist, Iowa State University; Antonio Mallarino, professor and Extension soil fertility specialist, Iowa State University*
- 4:00 PM **Course adjourns**