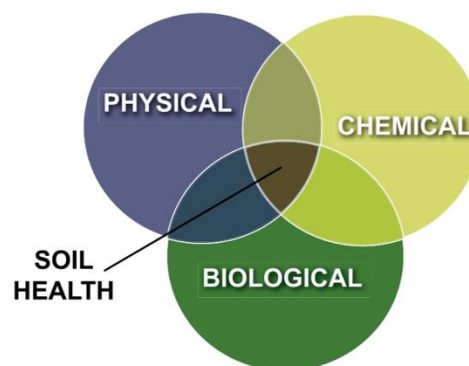


## Association of Ohio Pedologists 2018 Summer Workshop What is Soil Health and how can it be measured?

The Association of Ohio Pedologists will host a workshop on Tuesday, August 7<sup>th</sup>, featuring Dr. Steve Culman, OSU Assistant Professor and State Specialist in Soil Fertility, entitled

"Quantitative Measures of Soil Health."

This workshop will provide an overview of soil health concepts and the current status of quantitative measurements of carbon and microbial activity, available nitrogen, and soil physical properties. Recent developments utilizing infrared spectroscopy will also be reviewed. Participants will have the opportunity to visit soil pits and view soil profiles inside and outside the Rover Energy Pipeline Right-of-Way, just completed in 2017. Soil morphological properties and their relevance to soil interpretations for various land uses will be discussed. In addition, soil samples from the pits will be used in hands-on demonstrations of soil health measurements at Dr. Culman's OARDC laboratory.



Soil Health deals with the integration of important soil physical, biological and chemical properties. Figure taken from a *Comprehensive Assessment of Soil Health - the Cornell Framework Soil* (2017), as adapted from the Rodale Institute.



### Detailed Workshop Agenda and Schedule

Aerial view of Utopia pipeline near OARDC farms in Wayne Co., OH (Source: Google Earth/Earth Point Image dated 5/14/2017).

for August 7, 2018

Time	Topic	Presenter
8:00 - 9:00	Convene for coffee and donuts at 030 Skou Hall, ATI campus (see map below)	
9:00 - 9:45	Soil Health Overview: Framework and Current Status	Steve Culman
9:45 - 10:15	Measurements of Carbon and Microbial Activity	Jordon Wade
10:15 - 10:30	Measurements of Available Nitrogen	Steve Culman
10:30 - 10:45	Break	
10:45 - 11:00	Measurements of Soil Physical Properties	Vijay Chaganti
11:00 - 11:15	Quantifying Measurements with Infrared Spectroscopy	Leo Deiss
11:15-11:50	Soil Health Discussion	Steve Culman, others
12:00 - 12:45	Catered Lunch from Des Dutch Essenhaus in Skou Hall - Carmen Cafe	
12:45 - 1:00	Travel to Field Site	
1:00-3:00	Examination of Soil Profiles Inside and Outside of Rover Pipeline Right-of-Way	Jon Reedstrom, Steve Prebonick, Duane Wood, Wendell Swartzentrubber
3:00-3:15	Travel to Williams Hall, OARDC	
3:15-5:00	Hands-on Demonstrations of Soil Health Measurements	POXC Soil Protein Respiration Rainfall Simulator IR?

Quantitative Measures of Soil Health, AOP 2018 Summer Workshop  
August 7<sup>th</sup>, 2018; 8:00-9:00 am start time, workshop end time is 5:00 pm  
(6.5 CEU)

Agricultural Technical Institute

1328 Dover Rd, Wooster, OH 44691

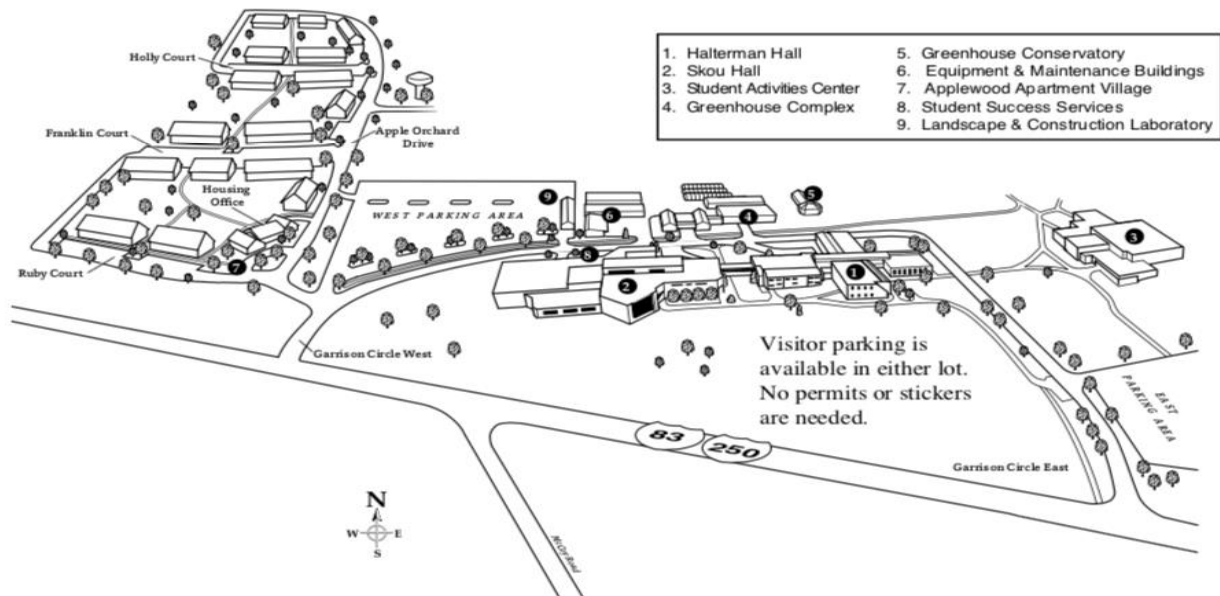
Skou Hall, Room 30 (Parking in West Parking Area Recommended)

Directions to OSU-ATI can be downloaded at:

[https://ati.osu.edu/sites/ati/files/sitelibrary/site/mages/campus%20and%20GDDL%20map%20updated%201\\_17.pdf](https://ati.osu.edu/sites/ati/files/sitelibrary/site/mages/campus%20and%20GDDL%20map%20updated%201_17.pdf)

Please register early, as participation is limited to 55 people. Lunch from Des Dutch Essenhaus is provided as part of registration as well as refreshments and a workshop manual from Cornell University, "Comprehensive Assessment of Soil Health.

## Ohio State ATI Campus



**2018 Association of Ohio Pedologists Summer Workshop  
Registration**

*Space limited to 55 participants. Register early to guarantee a seat.*

*Registration ends when full or at 5:00 p.m., Friday, August 3.2018*

**Registration for Non-Students: \$50 (includes meal and refreshments)**

**Register and Pay by Personal Check Payable to AOP**

Provide the following information:

Name: \_\_\_\_\_  
Street Address \_\_\_\_\_  
City, State, Zip Code \_\_\_\_\_  
Email Address \_\_\_\_\_  
Phone Number \_\_\_\_\_  
Dietary Restrictions \_\_\_\_\_

Include check payable to AOP and send to:

Jon Gerken, Treasurer  
5890 Rauch Rd.,  
Carroll, OH 43112

**Register and Pay by Credit Card (New, New, New):**

Visit the Association of Ohio Pedologists Secure Website Store and Follow Directions

[https://www.ohiopedologist.com/store/c1/Featured\\_Products.html](https://www.ohiopedologist.com/store/c1/Featured_Products.html).

**Registration for Students: Free (includes meal and refreshments)**

To register, please email Jon Gerken ([jgerken47@gmail.com](mailto:jgerken47@gmail.com)) your contact information and include the name of your advisor and academic program. Also indicate any special dietary needs.