



## Practical Microscopy Workshop for CTP Students

This workshop is focused on the practical use of the shadowing microscope to assess the quality of soil, compost, extracts and teas. Attendees will assess nematode extractions and protozoan infusions, as well as their own samples. There will be a third optional day which is dedicated to Epifluorescence Microscopy.

**Prerequisite:** Must have completed all four Foundation Courses or equivalent. All CTP Students qualify!

**Date:** Saturday, May 9 - Sunday, May 10, 2020. Optional: Monday, May 11, 2020.

**Fee:** \$1000 for a 2-day workshop ( Saturday, May 9 - Sunday, May 10), 3rd day optional for \$500 (Monday, May 11)

**Location:** Scio, Oregon at Harmony Jack Farm (45-minute drive from Corvallis, 30 minutes from Salem, OR, 15 minutes from Stayton)

There are only ten places available in this workshop. [Click here to register.](#)

Workshop Schedule	
<b>Saturday, May 9</b>	
8 AM	Meet in the classroom. Coffee, juice, water, and a few snacks will be available.  Student introductions, an overview of the background, interest in soil biology, discuss assessment of Sites, Soil, BioComplete™ Compost, Compost Extracts and Teas.
10 AM	15-minute Break
10:15 AM	Microscopy 101 <ol style="list-style-type: none"><li>1. Check to make sure everyone knows how to properly make dilutions, focus eyes on the sample, focus the light source on the sample, and shadow the organisms.</li><li>2. Go through the spreadsheet/sMApp, step by step.</li></ol>
Noon	Please bring your lunch with you. Scio, ten minutes away from the farm, has several restaurants and coffee shops along the main street.
1 PM - 5 PM	1. Finish going through the spreadsheet/sMApp, step by step.

	<p>2. Each student should assess one of their own samples.</p> <p>3. Each student to assess the same sample.</p> <p>4. Results from these samples will be put on the board.</p>
<b>Sunday, May 10</b> [Lunch at 12 PM and 15-minute breaks throughout the day]	
<b>8 AM - 5 PM</b>	We will spend the whole day using the microscopes, assessing samples, and reporting results on the board. In the afternoon, we will use microscopes to look at the protozoan infusions to make certain organisms are growing. We will also look at the nematode extractions to assess the number and functional groups of the nematodes.
<b>Monday, May 11 (OPTIONAL)</b> [Lunch at 12 PM and 15-minute breaks throughout the day]	
<b>8 AM - 5 PM</b>	Day 3 will be dedicated to Epifluorescence Microscopy. There will only be one Epifluorescence Microscope, and we will take turns flying the microscope. If you have your own Epifluorescence Microscope, please bring it with you.

**Things to Bring:** Each student must bring a suitable microscope. Follow this [link](#) to see the recommended microscope. You **MUST** bring soil, compost, extract and/or teas to assess.

Please bring your laptop computers, pictures of different organisms you have encountered, or have questions about.

With your microscope, make sure to include microscope slides and coverslips, test tubes with caps, test tube holders, beakers to hold clean and dirty water, cloths to clean the microscope and lens cleaner.

Also, bring BOOTS, jackets, and dress in layers. Mornings can be cool in Oregon at this time of year, but mid-day can be quite summer-like, so dress accordingly, please. There will be cows, cats, dogs, as well as wildlife in the area. Poison oak is in the underbrush in the forested areas.

#### **Accommodations in Scio, 10-30 minutes away from the farm:**

**Bridgeway Inn & Suites**

\$79/night

300 SW Sublimity Blvd, Sublimity, OR 97385

(503) 769-9579

Breakfast is minimal, but a nice place overall

**Gardner House Cafe and Bed & Breakfast**

633 N 3rd Ave, Stayton, OR 97383

No price listed; very good reputation

(503) 769-5478

**Silver Falls Lodge & Conference Center**

20022 Silver Falls Hwy SE, Sublimity, OR 97385

\$146/night (3-star hotel)

(866) 575-8875

**Maps to the Farm will be provided upon payment for the workshop.**