Summer Soil INSTITUTE

Colorado State University June 17-30, 2018 Fort Collins, Colorado

Gain an integrated perspective on soil ecology and biogeochemistry with world-renowned faculty to address critical questions using up-to-date field and laboratory analytical techniques and models.

Designed for graduate students, post-docs, professionals, faculty, and K-12 teachers.

Pedology: Field characterization of soil profiles in grasslands and forest environments.

Soil Biogeochemistry: Greenhouse gas flux measurements, Soil organic matter physical fractionation, ^{13}C and ^{15}N Isotope techniques.

Soil Microbiology: DNA extraction, quantitative PCR, DNA fingerprinting, extracellular enzyme activity assays.

Soil Ecology: Extraction and identification (microscopy and molecular) of nematodes, protozoa, rotifers, tardigrades, arthropods, and earthworms.

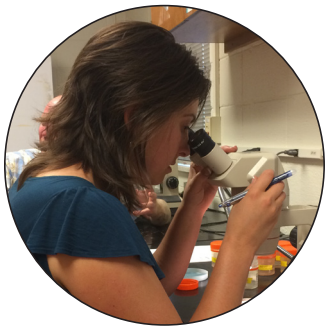
Modeling: Application of equation and agent–based models of soil food web dynamics, biogeochemical cycling, and soil and organic matter formation.

2018 Instructors

M. Francesca Cotrufo
Steven Fonte
John Moore
Keith Paustian
Cathy Stewart
Joe von Fischer
Matthew Wallenstein

Keynote address by Noah Fierer

For more information:
http://soilinstitute.nrel.colostate.edu



Participants in the two-week course gain hands-on experience in soil sampling, analytical techniques, and most importantly, a holistic understanding of soil systems formalized through model development.

Interactive lectures and vibrant discussions are brought to life with field site visits to Colorado natural grassland and forest ecosystems and a research farm, where participants study and collect diverse soils.

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