

Practical Soil Health Specialist Training New York State



WORKSHOP TWO – CROPPING SYSTEMS AND COVER CROPS
OCTOBER 23 AND 24, 2018 ● ITHACA, NY

Speakers

Quirine Ketterings

Professor of Nutrient Management in Agricultural Systems, qmk2@cornell.edu

Department of Animal Science at Cornell University

Quirine Ketterings initiated and leads the Cornell Nutrient Management Spear Program (NMSP; <http://nmssp.cals.cornell.edu>), the applied research and extension program in nutrient management of field crops of the College of Agricultural and Life Sciences. Quirine's research focuses on improving the understanding of nutrient release and risk for runoff and leaching losses from inorganic and organic amendments as affected by soil type, hydrology, time and rate of application, and the use of specific soil and fertilizer amendments. Her teaching and outreach aim to improve grower and agricultural industry awareness of crop nutrient needs, crop quality, management of organic amendments, environmentally sound nutrient management practices, and overall soil fertility management in New York State, and provide methods and tools to integrate and apply accumulated knowledge about crop nutrient guidelines to optimize crop yield while minimizing risk to the environment.

Sarah Lyons

Graduate Student, sel248@cornell.edu

Department of Animal Science at Cornell University

Sarah Lyons became interested in agriculture during her undergraduate work at Furman University, where she completed a B.Sc. in Biology. She went on to complete a Masters in Animal Science at North Carolina State University focusing on fescue toxicity in beef cattle. In 2015, she began a PhD program at Cornell University in the Department of Animal Science with the Nutrient Management Spear Program. Her PhD work focuses on the growing requirements, nutritional potential and economic and environmental benefits of double cropping with winter cereals and forage sorghum or corn silage in dairy production systems in New York State.



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Matthew Ryan

Assistant Professor of Sustainable Cropping Systems, Co-PI New York State Soil Health, mrr232@cornell.edu

Soil and Crop Sciences Section at Cornell University

Matt Ryan works with farmers, students, and other scientists to evaluate cropping system performance in terms of crop yield, profitability, environmental impact, and resilience. His research is currently focused on expanding the utility of cover crops by overcoming obstacles that limit their adoption and developing management practices that maximize their benefits. Matt is also interested in perennial grains, ecological weed management, conservation agriculture, agroecological theory, and the role of diversity in adapting to climate change. Much of Matt's research is field based and conducted either on-farm or at the Cornell Research Farms located in Central and Northern New York.

Uriel Menalled

Graduate Student, udm3@cornell.edu

Soil and Crop Sciences Section at Cornell University

Uriel Menalled grew up in Montana and graduated from Montana State University in 2018 with a degree in Sustainable Food and Bioenergy Systems- Agroecology. During his undergraduate studies, he researched Hory allysum (*Berteroa incana*) chemical management and the effects of crop identity and farm management on plant soil feedbacks. This fall, he started an MS/PhD in the Cornell Soil and Crop Sciences department and is studying the effects of plant diversity soil legacies on crop-weed competition.

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Thomas Bjorkman

Professor of Vegetable Crop Physiology, tnb1@cornell.edu

School of Integrative Plant Science, Horticulture Section at Cornell University

Thomas Bjorkman studies physiological processes that are important to vegetable production. His current focus is on temperature-related disruption of floral development in broccoli, and on physical and biotic interactions between cover crops and the rhizosphere that affect subsequent vegetables. Thomas enjoys working on interdisciplinary teams, and devising projects to have good "real-world impact" by working closely with the intended beneficiaries. Project websites include easternbroccoli.org and covercrop.org.

Cedric Mason

Research Support Specialist, cwm77@cornell.edu

School of Integrative Plant Science, Horticulture Section at Cornell University

Cedric Mason grew up in the Northeast U.S. and attended Franklin & Marshall College, where he completed a B.A. in Physics in 2003. Cedric has years of experience working directly on farms, specializing in organic fruits and vegetables, Christmas trees, and pastured beef cattle. An Ithaca, NY resident since 2011, Cedric earned a Ph.D in the department of Biological and Environmental Engineering at Cornell in 2016, where he conducted research on perennial bioenergy crops. Cedric joined the New York State Soil Health Initiative in 2017.

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Ryan Maher

Extension Support Specialist, ryan.maher@cornell.edu

School of Integrative Plant Science, Horticulture Section at Cornell University

Ryan Maher has worked in the Small Farms Program at Cornell University since 2013. He manages research and extension projects in vegetable cropping systems and supports farmers at any scale in adopting reduced tillage and cover cropping practices to build soil health on their farm. After graduating from SUNY-ESF in 2003 he spent two summers training on small-scale diversified vegetable farms. He graduated from Iowa State in 2017 with an MS in Sustainable Agriculture investigating soil processes in native grassland restorations. He spent five years with the USDA-ARS in St. Paul MN coordinating research on nutrient cycling in perennial forage crops.

David DeGolyer

Executive Managing Consultant, ddegolyer@wnycma.com

Western New York Crop Management Association (WNYCMA)

David DeGolyer, a crop consultant for thirty years, has been managing WNYCMA since 1995. WNYCMA is a grower-owned cooperative that specializes in crop consulting and environmental planning. David is a CCA (certified crop consultant) and the first certified CAFO (Concentrated Animal Feeding Operations) planner in New York State. He holds a Bachelors of Science in Agronomy from Cornell University.