

Northeastern Branch of Crop, Soil and Agronomy Societies of America (NEBCSA)



Annual Meeting
June 27-30

Hosted by Cornell University

Cornell University
Department of Animal Science,
Morrison Hall, Ithaca NY 14853
<http://www.ansci.cornell.edu/nebcsa>

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Education (NESARE)

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DairyOne

Northeastern Branch of Crop, Soil and Agronomy Societies of America (NEBCSA)

Program

Sunday June 27, 2010: Plenary session (large auditorium, 146 Morrison Hall):

“Challenges and opportunities for sustainable food production in the year 2040”

- 3.00-5.30 pm Registration Morrison Lobby (put up posters in 163 Morrison Hall)
5.30-5.45 pm Welcome by Jan Nyrop, Senior Associate Dean of the College of Agriculture and Life Sciences, Cornell University (146 Morrison)
5.45-6.30 pm Keynote address: World and US food production (Chris Barrett)
6.30-9.00 pm Reception and barbecue – either in the court yard or 348 Morrison (King Ferry Winery and Old Mill Catering)

About Dr. Chris Barrett:

Dr. Barrett is the Stephen B. and Janice G. Ashley Professor of Applied Economics and Management and International Professor of Agriculture, Department of Applied Economics and Management at Cornell University (http://aem.cornell.edu/faculty_sites/cbb2/). He is also the Persistent Poverty and Upward Mobility Theme Leader for the Institute for the Social Sciences <http://www.socialsciences.cornell.edu/0811/desc.html>, Associate Director for Economic Development Programs, Cornell Center for a Sustainable Future (<http://sustainablefuture.cornell.edu>), and the Director of the Food Systems and Poverty Reduction IGERT (<http://ciifad.cornell.edu/igert/>). In his keynote address he will discuss the changing demand and supply conditions for world food production and the implications for US and northeastern agriculture. He will emphasize not only commercial opportunities and challenges but also the humanitarian and environmental challenges implicit in the evolving agricultural economy.

Monday June 28, 2010: Plenary session continued (146 Morrison Hall):

“Challenges and opportunities for sustainable food production in the year 2040”

Presiding:

Greg Albrecht, New York State Department of Agriculture and Markets (NYSDAM)

8.30-9.00 am:

Northeast US food production (Tom Overton and Mike van Amburgh)

Tom Overton: Associate Professor, Animal Science, Cornell University

Mike van Amburgh: Associate Professor, Animal Science, Cornell University

9.00-10.00 am:

Northeastern dairy-farm systems (Charlie Sniffen and Ev Thomas)

Charlie Sniffen: Fencrest, LLC (<http://www.fencrestllc.co.nr/>)

Ev Thomas: Oak Point Agronomics (<http://www.oakpointagronomics.com/>)

10.00-10.30 am: Break – Morrison Hall Lobby

Presiding: Karl Czymmek, PRODAIRY, Cornell University

10.30-11.30 am: Farmer panel; challenges and opportunities at the farm level

Peter McDonald: McDonald Farm (Seneca County)

(<http://pasturepride.com>)

McDonald Farm is a 220 acre pasture-based, multi species, multi-generational small family farming venture located in the heart of the Finger Lakes Region of Upstate NY. Owned and operated by the Peter McDonald family, McDonald Farm is developing into a successful model for fulfilling relationships between soil, animals and people through a farming enterprise dedicated to restorative agricultural practices for clean food production.

Doug Young: Spruce Haven Farm (Cayuga County)

(<http://www.sprucehavenfarmllc.com/>)

Located in Union Springs, NY in the Fingerlakes region, the farm's main focus is fluid milk production. The business has also diversified to create additional income through Research, which is led by Dr. Jim Nocek, and Genetics which is managed by Sam Potter. Spruce Haven Farm, LLC strives to provide a reasonable living for the families it supports, while maintaining a symbiotic relationship with the land and cattle they care for.

Dale Hemminger: Hemdale Farms and Greenhouses (Ontario County)

(<http://www.edf.org/article.cfm?contentID=6157>)

Dale's 2,800 acre upstate NY farm, Hemdale Farms and Greenhouses, has been managed to provide environmental benefits since the beginning. Dale credits his farming-philosophy to his late father, Ralph, a natural steward of the land. Ralph and his wife Elsie started the farm in 1953 and Dale joined in managing the operation in 1976. Hemdale Farms now consists of 700 dairy cows (milking robots), 1,500 acres of vegetables - 300 acres of which are organic, 1,300 acres of forage crops, and a greenhouse that grows vegetable seedlings for local grower use.

11.30-12.30 pm: Discussion – meeting producer needs (146 Morrison Hall)

12.30-1.30 pm: Lunch and NEBCSA Business Meeting (348 Morrison Hall)

Presiding: Margaret Smith, Plant Breeding

1.30-3.10 pm: Student oral presentation competition (146 Morrison Hall)

1.30-1.50	Reducing Tillage in an Organic Vegetable System: In-Row Weed Control and Fertility Management. ¹ Sara Rostampour, ¹ Anusuya Rangarajan, ² Charles Mohler, ² Antonio DiTommaso, ¹ Department of Horticulture, ² Department of Crop and Soil Sciences, Cornell University, Ithaca NY 14853.
1.50-2.10	Potassium Fertilization Affects Psychrophilic Pathogen Development in Annual Bluegrass. David R. Moody and Frank Rossi, Department of Horticulture, Cornell University, Ithaca NY 14853.

2.10-2.30	Effects of Late Season N/PGR Applications on Carbohydrate Balance and Spring Green up of Cool Season Turfgrasses. Chase Rogan and Max Schlossberg, The Pennsylvania State University.
2.30-2.50	Using a Spatial Model for Estimating the Critical Planting Date for Rye Cover Crop in Massachusetts. Ali Farsad, Timothy Ramdhir, Stephen J. Herbert, Masoud Hashemi, University of Massachusetts-Amherst.
2.50-3.10	Shallow Incorporation of Manure in Reduced Tillage Systems Conserves Residue and Nitrogen. Anne M. Place ¹ , Quirine M. Ketterings ¹ , Greg Godwin ¹ , Peter Barney ² , Joseph R. Lawrence ³ , Brian Aldrich ⁴ , Tom Kilcer ⁵ , Karl Czymmek ¹ and Brent Gloy ⁶ , ¹ Department of Animal Science, Cornell University, ² Barney Agronomic Services, ³ Cornell Cooperative Extension of Lewis County, ⁴ Cornell Cooperative Extension of Cayuga County, ⁵ Advanced Ag Systems Research, Education, Consulting, ⁶ Department of Applied Economics and Management, Cornell University.

3.10-3.30 pm: NESARE – Tom Morris

3.30-6.00 pm: Poster session and reception (Morrison Hall Lobby and Room 163)

(Monday night dinner on your own)

Tuesday June 29: FIELD TOURS
Meet at Morrison Hall Lobby at 8:15 a.m.
Bus/vans leave by 8:30 a.m.

(1) Bioenergy tour (bioenergy and biofuels)

Tour guide: Joe Lawrence (CCE of Lewis County)

“Biofuels Research Facility”

http://walkerlab.bee.cornell.edu/Walker_group/Main.html

Larry Walker – Biological and Environmental Engineering

“Warm season grass trials for bioenergy”

Hilary Mayton/Don Viands – Plant Breeding and Genetics

“CURBI” Cornell University Renewable Bioenergy Initiative (CURBI)

<http://www.cuaes.cornell.edu/cals/cuaes/ag-operations/curbi/index.cfm>

Award winning energy initiative by the College of Agriculture and Life Sciences, Cornell University

Drew Lewis, Operations Director, CUAES

Lunch at Mt Pleasant

Grass bioenergy (Mt Pleasant facility)

<http://www.grassbioenergy.org/>

Jerry Cherney – Crop and Soil Sciences

Myers Park, Lansing NY Dinner and Awards (Six Mile Creek Winery and Old Mill Catering) <http://www.lansingrec.com/content/blogcategory/3/8/>

(2) New York Farm tour (progressive central New York farms investing in the future, involved in research and testing and implementing new technologies)

Tour guides: Shawn Bossard (SUNY Morrisville), Tom Kilcer (Advanced Ag Systems Research, Education, Consulting), Mike Dennis (Growmark)

Windstott Farm - Bill Kilcer, Genoa NY

100 cows, robotic milking system, works with custom operating, collaborative arrangements with neighboring farm, participating in manure application study. (<http://nmsp.cals.cornell.edu/publications/impactstatements/WindstottFarms>).

Sunnyside Farm Inc. – Greg and Neil Rejman, Genoa NY

3500 milking cows, 5000 acres, anaerobic digester, land application of manure, participating in on-farm research including a recent manure application study (<http://nmsp.cals.cornell.edu/publications/impactstatements/Sunnyside.pdf>)

Lunch at Sunnyside Farm

DumondAg - Todd Dumond, Union Spring, NY

Crop farmer implementing advanced technologies, on-farm research.

Myers Park, Lansing, NY Dinner and Awards (Six Mile Creek Winery and Old Mill Catering) <http://www.lansingrec.com/content/blogcategory/3/8/>

Wednesday morning: Oral Presentations

CROPS (B38 Morrison Hall)

Presiding: Janice Degni, Cornell Cooperative Extension

8.30-8.50	Yield, Quality and Time of Harvest of Tall Wheatgrass for Biomass Energy. Paul R. Salon ¹ , Tibor Horvath ¹ , Martin van der Grinten ¹ and Hilary Mayton ² , USDA-NRCS ¹ and ² Cornell University.
8.50-9.10	Planting Density and Plant Growth Regulators Impact on Castor Bio-oil Production in the Northeast. Thomas Kilcer, Advanced Ag Systems LLC, Kinderhook, NY 12106.
9.10-9.30	Mustard Cover Crop and Nitrogen Influence on Potato Yield and Quality. John Jemison ¹ and Peter Sexton ² , ¹ University of Maine; ² South Dakota State University.
9.30-9.50	Impact of Date of Planting Winter Triticale for Dairy Forage. Thomas Kilcer, Advanced Ag Systems LLC, Kinderhook, NY 12106.
9.50-10.10	A Study to Look at Practices Aimed at Reducing Mechanical Cultivation in Organic Corn. Janice Degni, Cornell Cooperative Extension.
Break	
10.30-10.50	Effects of Nitrogen Deficiency on Organic Nitrogen Metabolism in Leaves and Roots of Creeping Bentgrass. Zhongchun Jiang ¹ , Chenping Xu ² and Bingru Huang ² , ¹ State Univ. of New York, Cobleskill, NY 12043, ² Rutgers Univ., New Brunswick, NJ 08901.
10.50-11.10	Understanding the Physiology and Mechanisms of Seed Dormancy in Switchgrass (<i>Panicum virgatum</i> L.). Denise V. Duclos ¹ , Dennis Ray ² , and Alan G. Taylor ¹ , ¹ Department of Horticultural Sciences, New York State Agricultural Experiment Station, Cornell University, Geneva, NY 14456-0462, USA, ² Division of Horticultural and Crop Sciences, School of Plant Sciences, University of Arizona, Tucson, AZ 85721, USA.
11.10-11.30	Precision Irrigation to Improve Water Use Efficiency. S.E. White, J. Adkins, and C. Whaley, University of Delaware.
11.30-11.50	The Cornell Organic Grain Cropping Systems Experiment: Nutrients, Yields and Net Returns through Transition and Beyond. Charles L. Mohler ¹ , Brian Caldwell ¹ , and Quirine M. Ketterings ² , ¹ Dept. of Crop and Soil Sciences, ² Dept. of Animal Science, Cornell University, Ithaca NY 14853.
11.50-12.10	Heavy Fertilization with Compost and Manure Can Cause Weed Problems. Charles L. Mohler ¹ , Thomas Björkman ² , Klaas Martens ³ , Brian Caldwell ¹ , Quirine M. Ketterings ⁴ , Antonio DiTommaso ¹ , ¹ Department of Crop and Soil Science, Cornell University, Ithaca NY 14853, ² Department of Horticultural Science, Geneva NY, ³ Lakeview Organic Grains, Penn Yan, ⁴ Department of Animal Science, Cornell University, Ithaca NY 14853.
12.10-12.30	Adaptive Management of Winter Cover Crops Using Remote Sensing and Data Sharing Strategies. W. Dean Hively ¹ , G.W. McCarty ² , J. Keppler ³ , M. Lang ⁴ , and A. Sadeghi ⁴ , Maryland Department of Agriculture, USGS Eastern Geographic Science Center, ² USDA-ARS Hydrology and Remote Sensing Laboratory, ³ Office of Resource Conservation, and ⁴ USDA-ARS HRSL.

Adjourn

Wednesday morning: Oral Presentations

SOILS/FARMS (146 Morrison Hall)

Presiding: Steve DeGloria, Crop and Soil Sciences

8.30-8.50	Influence of Soil Properties on Riparian Soil Phosphorus Availability. Eric O. Young ¹ , Donald S. Ross ² , Caroline Alves ³ , and Thomas Villars ⁴ , ¹ William H. Miner Agricultural Research Institute, Chazy, NY, ² Department of Plant and Soil Science, University of Vermont, Burlington, VT, ³ United States Department of Agriculture-Natural Resources Conservation Service, Williston, VT, ⁴ United States Department of Agriculture-Natural Resources Conservation Service, White River Jct., VT.
8.50-9.10	Arsenic and Lead Uptake by Vegetable Crops from Old Orchard Soils. M.B. McBride ¹ , L. Kalbacker ¹ and L. Baker ² , ¹ Department of Crop and Soil Sciences, Cornell University, Ithaca, NY 14853, ² Soil and Land Resources Division, University of Idaho.
9.10-9.30	Managing Fertilizer to Reduce Nitrous Oxide Emission in Eastern Canada. Tom W. Bruulsema, International Plant Nutrition Institute, Guelph, Ontario, Canada.
9.30-9.50	Reducing Phosphorus Runoff from Small Livestock Farms into Missisquoi Bay. Sally A. Flis ¹ and Jeffery E. Carter ² , – ¹ Bourdeaus' and Bushey, Inc., and ² UVM Extension.
9.50-10.10	Potassium (K) Fertilization of Alfalfa-Grass: How Much do we Really Need? Karl Czymmek ¹ , Quirine Ketterings ¹ , Greg Godwin ¹ , Chang Lian ¹ , Jerry Cherney ² , ¹ Department of Animal Science, ² Department of Crop and Soil Sciences, Cornell University, Ithaca, NY 14853.
Break	
10.30-10.50	Nutrient Management Planning for Small Farms in the New York City Watershed. Dale Dewing, Cornell Cooperative Extension of Delaware County.
10.50-11.10	Chesapeake Bay Issues: The Junction of Science and Policy. Dave Hansen, University of Delaware.
11.10-11.30	Managing Nutrients on Dairy Farms Through Feed Management. Paul E. Cerosaletti, Dale R. Dewing and April W. Lucas, Extension Educators, Cornell Cooperative Extension of Delaware County.
11.30-11.50	Evaluation of Farm Performance Indicators of Three New York Dairies as Predictors for Farm Nutrient Balances over Time. Patty Ristow ¹ , Quirine M. Ketterings ¹ , Caroline Rasmussen ¹ , Karl Czymmek ¹ , Mike Van Amburgh ¹ , Larry Chase ¹ , ¹ Department of Animal Science, Cornell University.
11.50-12.10	Energy Crop Anaerobic Digestion. Curt A. Gooch, P.E., Cornell University, PRO-DAIRY Program.
12.10-12.30	Sulfur Needs of Alfalfa; Tools for Sulfur Management. Quirine Ketterings ¹ , Jerry Cherney ² , Greg Godwin ¹ , Sanjay Gami ¹ , Debbie Cherney ¹ , Karl Czymmek ¹ , ¹ Department of Animal Science, ² Department of Crop and Soil Sciences, Cornell University.

12.30: Adjourn

Directions to Myers Park (4 pm onwards Tuesday June 29, 2010)

Directions

From Ithaca: From Route 13 Go North on Route 34 until you get to a T intersection (Rogue's Harbor Inn is on the Right). Take a Left onto Route 34B and follow until you get to the Lansing schools. Take a Left onto Myers Road. Follow down the hill into Myers Park.

From Auburn: Go South on Route 34. After passing the Gossett Center the road curves to the right (you will see Scoops ice cream stand). Now you are on 34B. Continue straight through the traffic light until you get to the Lansing schools. Take a Left onto Myers Road. Follow down the hill into Myers Park.

We will be at the **A pavilion** from 4 pm onwards.



<http://www.lansingrec.com/content/blogcategory/3/8/>
