

# Cornell Cross-Class Collaboration Combines Cloud Computing, Cows

By Melanie Lefkowitz  
Cornell CALS

In a new collaboration, students from Dairy Herd Management teamed up with students in Topics in Cloud Computing to learn how to work together to develop the kinds of digital tools that could reshape farming. Above, a dairy cow. Photo by Justin James Muir.

Colby Castle, an animal science major who grew up on a cattle ranch, had heard of facial recognition for cows but never imagined how close the technology was to being widely used – or that he could have a role in developing it.

“Instead of having to go out and walk the entire pen looking for a certain cow, a mobile phone could tell you where to find her. I thought that’d be pretty cool,” said Castle. “It would be a very useful app, especially on larger dairies.”

It’s the kind of solution that

might not occur to computer scientists, who don’t know much about farming, or to farmers, who generally lack expertise in machine learning and cloud computing.

But in a new collaboration, students from Dairy Herd Management, a spring 2019 class in the College of Agriculture and Life Sciences, teamed up with students in Topics in Cloud Computing, in Computing and Information Science, to learn how to work together to develop the kinds of digital tools that could reshape farming.

Castle and his classmates took around 10,000 photos of cows for the computer science students, who created software that would allow farmers to use smartphones to find specific cows, guided by cameras in the barn.

Other ideas included using cameras in milking stations to

monitor cows for injured hoofs or dirty udders, to anticipate and treat potential problems before they become serious.

“I never thought about agriculture and animal science before, but I think now that [computing] is changing the industry,” said Tian Ren, M.Eng., a computer science student whose team project aimed to predict cow pregnancies.

“I’ve heard farmers say these kinds of tools really help them and they really appreciate them, so I think we’re doing something meaningful.”

The classes – along with doctoral students working with Abraham Stroock, the William C. Hooey Director and Gordon L. Dibble ’50 Professor in the Smith School of Chemical and Biomedical Engineering – are collaborating as part of the Cornell Initiative

for Digital Agriculture, an effort partially funded by Microsoft. Microsoft provided the students access to its Azure cloud computing service, as well as training to understand some of its features. For the computer science students, the dairy projects offered hands-on experience with the “internet of things” – an interconnected web of devices such as cameras, sensors and smartphones – as well as an opportunity to see a real-world impact.

“It gives the students a very concrete way to think about the applications, and it really helps them think through the entire sequence, from the sensors collecting data to the knowledge they’re trying to give back to the farmer,” said Ken Birman, the N. Rama Rao Professor of Computer Science and instructor of Topics in Cloud Computing.

## Field

Continued from page 29

On Wednesday, July 17 the county Farm Bureau is hosting its annual summer barbecue at Noblewood Park in Willsboro beginning at 6:30 p.m. The county Farm Bureau will provide a main dish, but requests that members bring a dish to pass and their beverage of choice. Before the picnic at 5:30 p.m., members are welcome to tour Ben Wever Farm at 444 S Mountain View Dr in Willsboro. Please RSVP to the Eastern New York Regional Office at 866-995-7300 or eny@nyfb.org. The county Farm Bureau also increased

its sponsorship of the Essex County Fair and increased their sponsorship of the 4H show prizes. It is also planning a legislative reception for the County Board of Supervisors scheduled for Mon., July 29 from 11 a.m. to 1 p.m. in Elizabethtown. The county Farm Bureau wants to showcase the diverse and innovative agriculture in the county to highlight the importance of agriculture to the board of supervisors. If you wish to be involved in this event, please contact Carly Summers at cfs82@cornell.edu. Please “like” the Facebook page for up-to-date information on Essex County Farm Bureau.

### Washington County

Earlier this spring, Washington County Farm Bureau awarded over 10 scholarships to State FFA

Convention with funds raised by Trivia Night 2019. Their annual post-secondary scholarship for graduating seniors and current college students was due at the beginning of May and will be awarded later this year. Washington County Farm Bureau has also maintained its community support by sponsoring various groups and organizations including the Washington County Fair, Salem 4th of July Parade, the Ag Stewardship Society and the Lunch, Learn, and Play program in Salem. Please watch your email and mailbox for more information on this event or “like” the Facebook page for up-to-date information on Washington County Farm Bureau. Washington County Farm Bureau is also on Instagram @

WashingtonCountyNYFarmBureau  
**Saratoga County**

Saratoga County has stayed active during the spring. The county Farm Bureau sponsored the Saratoga County Horse Symposium. It also awarded their post-secondary scholarship in June with the winner to be announced soon. Looking forward, the county Farm Bureau is again sponsoring awards for the Saratoga County Fair and has ordered a new display for the Saratoga County Fair. The booth will no longer be in the Farm Bureau Building, but rather in the Townley Building. Please stop in to visit the new booth. Please “like” the Facebook page for up-to-date information on Saratoga County Farm Bureau.

# Grassroots Farmers’ Market

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# Grassroots Farmers' Market

**BEEF CATTLE**, Black Angus. all sizes and all ages. 607-589-6975

**REGISTERED** Polled Hereford Heifers. Feminine, fancy and functional. Sires include R. Leader, KT Built Tuff and Walkers Captain. John Kriese 315-595-6198 or 315-856-0234 Hereford@frontiernet.net.

**YEARLING** Holstein heifers for sale. 5 of them. \$950 each OBO; Antique 1-bottom walk behind plow, Best Offer. Daryl at 315-536-1091

## GOATS/SHEEP

**BABY** Lambs and goats and baled hay available all year long. Mike 845-434-7764

**WHITE DORPER SHEEP** shedding, no shearing needed, and **KIKO GOATS**, pasture-raised without any grain, hoof rot free. www.whitecloversheepfarm.com, Email ulf@whitecloversheepfarm.com. Phone 585-554-3313

**PUREBRED KIKO** Performance Bucks. Excellent bloodlines from Dr. Ann Pieschel. Goats Unlimited. Healthy and hardy bucks of various ages and colors from a closed herd. Upgrade your kiko herd or add hybrid vigor to other breeds with the Kiko Advantage for \$600. Ask about our started packages! www.Roll-n-HillsRanch.com or Ken at 607-760-5660. Johnson City, NY.

**REGISTERED NIGERIAN** Dwarf dairy goats – small and easy to handle. breeding stock, ideal for personal milk supply, 4-H projects, Can pull carts or be a pack animal. Does and bucks available. Shots-wormed- Downsizing herd. Binghamton area, call evenings 607-693-2682

**WHITE** and Colored Leicester Longwools, CVM Romedales and Colored Angora Goat registered breeding stock for sale. Raw and processed fibers, classes, spring/fall open house. Lochan More Farm on Facebook. 315-277-0104

**6 REGISTERED TEXEL RAM LAMBS.** 4 Ewe Lambs, twins and triplets. Born Feb 2019. All vet checked, OPP and Scrapies tested. Very clean flock with no Soremouth or Foot-rot. 2 Registered Texel 3 yr-old Rams. Proven sires, with lambs on the ground. 518-853-3678 or hilltopacres@frontiernet.net.

**DAIRY GOATS** – 80 doelings and 24 bucklings. Doelings born Feb-July. Raised on milk replacer and wormed. Breeds include saanen, lamacha and crosses. Closed herd. Dairy character. 607-226-2280 www.hiddenpasturesdairy.com.

**STARTER FLOCKS:** Grade Tunis and colored Tunis cross ewes, bred for late March lambing. No foot-rot, good mothers, nice spinning fleeces. Take advantage of hybrid vigor! Springside Farm. 315-632-1008

**PUREBRED DORPER** Rams, Commercial and Registered. All from great bloodlines and will be an excellent addition to your flock. Kristin at 315-868-2880 or k\_updike@yahoo.com.

## SWINE

**KUNEKUNE** grazing pigs. Bred

sows, boars, weaners. Gentle super mothers, easy on pastures and fence. 607-221-6629

**SMALL SUPPLY** of Purebred Berkshire barrows from Registered Breeding stock. Genetics Gold Star Meat Sires, real meat wagons. Available for \$100 each. Weigh 45 to 50 pounds. Call Jake 315-777-6401

**SNOW HILL FARM** Berkshire Boar registered by the American Berkshire Assoc. and Certified Black Angus Bull Registered American Angus Assoc. 1-Breeder Boar "Peter" proven 100% producer with two sows and five litters \$700; 1-Bull "Pioneer" exceptional producer and outstanding pedigree. Born 8-2011. \$2500. 914-669-0999 or info@snowhillorganicfarm.com.

## ALPACAS/LLAMAS/CAMELIDS

**HUACAYA** Male and female alpacas for sale. For fiber, as companion animals, pets or to increase herd size. Call for a farm visit and check pictures at Inghams Mills Farm 315-823-1605.

**LLAMAS** – we offer animals that can fill a variety of purposes; a loveable companion, show animal, pack, guard, or a source of exquisite fiber. www.dakotaridgefarm.com, llamawhisp@aol.com. Ballston Spa, NY.

**HIDDEN ALPACA FARM**, Horseheads, NY., has fiber alpaca male & female huacayas for sale. 607-727-8511. Come visit the farm or view pics, descriptions and lineage at www.hiddenalpaca.com.

**INTERESTED IN** Owning Alpacas, but not quite sure? Try one of our new Adoption/Lease programs. Come and learn while enjoying these gentle, curious animals. Alpacas. hh@gmail.com or 585-455-2518

**INTERESTED** in owning your own herd sires? Great genetics, including Polaris, Dorian, Lancaster and also a Peruvian Hallmark grandson. Will negotiate. 518-497-6009 or 518-368-9594

**PROVEN ALPACA HERD SIRES:** Small herd needs to diversify its genetics makes available "Malbec" with extraordinary True Black ancestry and "Indy" whom produces grey and provides grey yarn that flies off the shelf. \$500 each. www.magermountainalpacas.com or 716-938-9077

## FORESTRY

**LOCUST POSTS**, poles, up to 30ft. Authentic locust split rails, posts. Sawn lumber 4x4, 6x6, 1x6 ect. 8-16ft oak \* cherry 1x4, 1x6 other sizes and species available. Buy standing locust and log length locust. Tom 518-883-8284 leave message.

**RED OAK BOARDS** – 1" thick, rough cut, 6', 8' and 10" width by 8 to 10ft long. Hand hewn beams 8-10" width by 10-20ft long. 518-864-5741

**BARK MULCH**, Treated Ties, Stone pallets, stock and made to order; Rough cut Pine and Hemlock lumber stock and cut to order. Air dried specialty lumber; Curly,

Wormy, Butternut, etc. Buying logs and standing timber Cannonsville Lumber, Inc. 607-467-3380 or lobodrijm@tds.net.

**THE WAGNER COMPANIES.** Purchasers of hardwood logs, standing timber and forest lands. Forest Management & Timber Appraisals by Certified Foresters. Seven locations from Allegany to Boonville, The Wagner Companies procurement department has a certified forester or log buyer ready to serve you. www.wagnerlumber.com. 607-687-5362

## TRAVEL/AGRITOURISM

**STEP BACK** into the 19th century at Raked South Garden Bed and Breakfast. See the orchard in season from your 2nd floor room. Call Dottie at 315-589-8012

A **HIDDEN** oasis, not visible from the road, Saint Hubert's Lodge & Club is unlike any other Bed and Breakfast in the Hudson River Valley, Reserve your overnight stay today! Sainthubertsllodge.com or 845-795-0037

**FRONTENAC POINT** Vineyard – Estate Winery is open for the season. Located on Cayuga Lake near Ithaca. NYFB members get 10% discount on wine purchased here. Hours and directions: www.frontenacpoint.com.

## DISTILLARIES/WINE TOURS&TRAILS/TASTINGS

**HANDCRAFTED SPIRITS** from our family farm distillery make great holiday gifts! Free tours and tastings every weekend afternoon year-round at Old Home Distillers Co., 964 Campbell Road, Lebanon, NY 13332. 315-837-4123 or visit www.oldhomedistillers.com

**DRAGONFYRE** DISTILLERY, Tours, Tasting Room and Gift Shoppe. Premium Artisan Whiskies in Very Small Batches. 1062 Leonard Road, Marathon, NY Route 221 East. Dragonfyredistillery.com 607-849-9600. Hours: Sat 11-6, Sun 12-5 or call for an appointment.

**BLACK BUTTON** Distilling is pleased to offer all NY Farm Bureau Members FREE Spirits Tasting and Factory Tour at our Rochester Distillery and Tasting Room; \$5 off any 750ml bottle of spirits purchased and the Room Fee waived for any events held at our Tasting rooms. Please stop in and see what NY Farmed spirits are all about. 85 Railroad Street, Rochester NY 14609 585-730-4512 or www.SevenFifty.com/BlackButton.

**SPIRITS!** Stop into Four Fights Distilling in Corning, NY. Open Thur-Sun. Check out our website at www.fourfightsdistilling.com. Located at 363 E. Market Street, Extension. Corning, NY 14830 Bourbon, Gin, Vodka, and more!

## WEDDINGS/RECEPTIONS

**RUSTIC WEDDING VENUE.** Located in Plattsburgh, NY – Elfs Farm and Cider House offers a unique and captivating setting for your ceremony, reception and photographs. Email events@

elfsfarm.com or 518-563-2750

## GATHERINGS/EVENTS

**MILLERS MILLS 5K Sundae Run** – Sunday July 21, 2019. Race starts 9:15am, ends 2pm. Awards, door prizes, ice cream, music. Early bird ice cream Friday 6-8pm. Southern Herkimer County. Info and Registration www.millersmillsny.com.

## SUPPLIES

### PESTICIDES

**PESTICIDES** – Springwater Ag Products. 8663 Strutt St. Wayland, NY. Helping farmers save since 2004. Farm tested with farm-friendly prices. Please call for a quote. Dave at 585-315-1094 or Penny at 607-759-0405

### OILS/LUBRICANTS

"**SLIPIT** general purpose lubricants. Use in USDA inspected facilities. FDA food grade for incidental food contact. Made in the Hudson Valley New York, Please try some. www.slipit.com/shop.html; 845-778-7219"

Buy **AMSOIL** at wholesale prices. AMSOIL Preferred Customers save 25-30% off lubrication products shipped to your door! AMSOIL made in the USA, the first in synthetic lubricants. Call/text 607-226-1195 http://ve.myamsoil.com.

**EARN** extra income marketing synthetic oil. No inventory required. Training available. Dealers wanted! Questions call 607-226-1195

## AG CONSTRUCTION/SUPPLIES

**IRRIGATION PUMP** and pipe. 8"-30'-60; 4"-30'-31; 3"-30'-30; 2"-30-8; 2"-20-15. 125hp JD with Berkly pump. 607-687-2874

**2 INCH** Irrigation pipe – (10) 40' sections with Raisers, Assorted Connectors, Accessories, service pipes. \$1.25 per foot. Eastport, Long Island 631-796-9252

**IRRIGATION PIPE** – 4 and 6 inch; 20, 30 and 40ft lengths; assorted tees, elbows and hardware. No reasonable offer refused. Laurel, Suffolk County. 631-276-2555

**GREEN SCAPES** Inc. Bulk rock salt, treated rock salt, liquid DeIcer, bagged salt products, manufactured soil, CU-Soil, Bio Retention Soil, bulk mulch and more. 315-469-0007 or www.greenscapesonline.com.

**STOP BY** our store, compare prices. Culvert pipe, drainage lines, PVC pipe, galvanized pipe, lumberyard, building materials, Bobcat and telehandler Rentals, Plumbing and Hardware. Call 7M Supply 518-673-1073 ext 4. Fort Plain, NY.

**SUPPLIES** – Bunk Covers, Oxygen Barrier, Bale Wrap, Bags, Silage Inoculant, Propionic Acid and from Canada – Quality Alfalfa and Grass seed. 716-485-6454

## SPECIALTY PRODUCTS

**SLEEP CHEAP & MORE** (315) 986-4720 Macedon (near Lowes) \$98 Twin Mattress, \$175 Twin Set, \$279

# Grassroots Farmers' Market

Full Set or \$299 Queen Set. Always new merchandise. Open 7 days.

**STOP FYRE Fire Extinguishers.** Ake.com. Statt's Response Kit LLC. An independent authorized dealer. 26 Church Street. Honeoye, NY 14471. The ONLY NYS dealer! 585-489-9408 or toddstatt@hotmail.com.

**NEW PRO-AGRICULTURE THEMED GIFTS.** Mugs, cell phone cases, mouse pads, humorous tees, kid's tees, etc by farmers, for farmers. Visit [www.AGtiveWear.com](http://www.AGtiveWear.com) Be an advocate. Wear your pride!

**FARMSTEAD CHEESE: HOLIDAY GIFT BOXES.** We milk 20 cows to produce our cheeses in the Adirondacks. This year we are shipping boxes across the US! The options are at [www.northcountrycreamery.com](http://www.northcountrycreamery.com) under the Purchase tab.

**GOATS MILK SOAP.** Handmade on the farm in Genesee County. Scented and unscented bars. Treat yourself today. Free samples with every order. [www.harperhillfarm.com](http://www.harperhillfarm.com).

**BULK FRESH Apple Cider Available.** Custom blends, tanker loads. First pressed, Raw Untreated. Minard Farms Beverage Company, Inc. 7th generation family Cider Mill. Clintondale, NY 845-883-7102. Christina DeMaio, Sales.

## MAPLE

**MAPLE SYRUP.** Gallons thru pints, reasonable and sustainably produced, will ship. See our website [www.woodsteadmaple.com](http://www.woodsteadmaple.com). 315-852-3351

**NEW YORK MAPLE SYRUP.** Try our newest product, Bourbon Barrel Aged Maple Syrup. Get the details or place your order at [www.cnymaple.com](http://www.cnymaple.com). 315-363-5397

## HONEY BEES

**RAW HONEY** – by the pail or case. 60lb pail \$160, 24lb pail \$64, 12lb pail \$36. 5lb case (6 jars) \$115, 1lb case (12 jars) \$46. Call for shipping costs. Ford's Honey Farm 1883 Castle Road. Newport, NY 13416. 315-891-3339

## AQUACULTURE

**HICKLING'S FISH FARM, Inc.** Providing fish for stocking or wholesale since 1986. Check out our website at [www.hicklingsfishfarm.com](http://www.hicklingsfishfarm.com) or give us a call at 607-965-8488

## HORTICULTURE

**HAZELNUT AND CHESTNUT Trees for sale.** Grown in zone 5a, Cortland, NY. Enjoy your own nut trees for commercial orchard, home planting or erosion control. [www.znutty.com](http://www.znutty.com) or 607-756-4409

**LOCUST TREES for sale.** Make good fence posts. You cut. 716-984-0085

**NEW and Used Pots.** #100-1quart to 12"x91/2" Send an email request to [Ph.dayl@juno.com](mailto:Ph.dayl@juno.com) In Solon, Cortland county.

**COVER CROPS.** Winter Rye, Winter Wheat, also Barley, Teff,

Alfalfa, Clover, Timothy and many more forages and turf grasses and Mixes. Deer plots. Grain and Silage corn, Soybeans, Bulk vegetables and Flower Seed. Page Seeds. 607-656-4107

**QUALITY FRESH GARLIC.** For fine culinary use & select seed. No herbicides/pesticides used. German white & red available. Will ship. 518-827-4544 or [sammonsgarlic@gmail.com](mailto:sammonsgarlic@gmail.com).

**MUSIC GARLIC SEED.** Best all around hardneck variety. Highest quality: grown exclusively with organic/biodynamic practices, rejuvenating and building soil. 845-789-1062 or [stillpointfarm@optonline.net](mailto:stillpointfarm@optonline.net). The jumbo and large sell out quickly.

**GRAINS.** Whole corn \$10; Ground corn \$11; Wheat \$10; Clean Oats \$15. Prices are per 100 pounds. 716-984-8088

**ORNAMENTAL TREES** – Norway Spruce. All sizes – well sheared and shaped. You dig – we dig. Reasonably priced. 607-753-0497

**CANNA LILY TUBERS (roots)** quantities available. Call 607-760-1636. Whitney Point, NY.

**OPEN POLLINATED CORN SEED.** Silage, Grain, Wildlife plots. Available Cert. Organic. Early varieties. Vast selection including Keuck Early 75 Day, Wapsie Valley 85 day, Dublin 87 day MN (13) 87 day, Silver King 100 day, Golden Bantam Sweet corn, Black Jack popcorn and Japanese Hulles Popcorn to name a few. Green Haven Open Pollinated Seed Group. 607-566-9253 [www.openpollinated.com](http://www.openpollinated.com).

**STEAM FLAKED CORN.** Bags-SuperSacks-Bulk. Picked up or delivered. Call Allie 716-992-1111

**TIMOTHY SEED for sale.** Good and clean \$40/bushel; \$35/bushel for 10 bushels or more. Also medium red clover seed, good and clean \$90/bushel. 315-536-8848

**CBD HEMP.** Feminized Seedlings and Seed available for 2019 planting season. Wessels Farm – Otisville, NY 845-386-5681

## AG LIME/FERTILIZER

**POULTRY MANURE.** \$10/yard. Pick up or delivery. Analysis available. 845-482-5464 Dan.

**PREPARE your garden this spring.** Research the benefits of alpaca fertilizer. By the truck load or 5 gallon pail. 607-546-5717 Burdett, NY

## SAWDUST/WOOD PELLETS/BEDDING

**SAWDUST.** \$16 per yard. Delivery available, call for price. 570-537-2937

**SAWDUST \$10/yard @ the Mill.** 607-687-1539 Robinson Lumber LLC, Owego, NY.

**HORSE BEDDING FOR SALE!** Sawdust, wood shavings (air-dried), or mixed loads available for delivery/pick up at our location Verri Green. Delivery options include 20 yards or 40

yards. Located in Palmyra, NY. For pricing, contact Katie or Ryan at 585-289-7267

**KILN DRIED SAWDUST.** Hardwood and softwood. Year-round availability. 100 yard loads. Keep your animals clean and healthy, prompt service, all calls answered/returned immediately. Call or text Mike 315-729-1499

**PEAT MOSS,** New Brunswick, CAN, Grower Quality. 55cu. Ft compressed bale \$95 FOB Lancaster, NY Quality Grower Mixes, your recipe. Bale – Bag – Bulk. Call for prices. Good Earth Organics 5950 Broadway in Lancaster, NY 14086 [Goodearth.org](http://Goodearth.org) 716-684-8111

## REAL ESTATE

**FAIRFIELD, NY** – 76.6 acre Farm. 3bedroom and dairy barn. Nice fields, pastures, woods. Magnificent distant views. \$265,000 Van Billings Real Estate LLC 315-429-0300

2500 Square Foot Storage Area. Water and Electric available on 4 acres. Ground level, 30 minutes South West of Albany. \$900/mon. 201-906-2135 or [eacciardi@aol.com](mailto:eacciardi@aol.com).

186 ACRE farm, Otsego County. Near Cooperstown, NY. 4 bedroom house, barn, machine shed, good pasture, hay fields, woods, great for horses, livestock. Also good for hunting. Could be Organic Certified. 607-965-2174

**BLUEBERRY FARM** 1600 blueberry plants, drip irrigation, U-pick, well established, barn, 8000kwh Solar, 2 story, 3br, 2 bath house, workshops, 40 acres. Barton, NY 607-760-3924 or 607-222-2697

**WHOLESALE state of the art greenhouse complex for lease near Ithaca.** 7 poly houses, 30K ft. Gas heat, side curtains, drip irrigation. 607-742-7541 Please leave message.

**BEAUTIFUL Winery/Distillery/Vineyard for sale.** Located in the foothills of the Adirondacks. 40 acre estate includes 12 acres of cold hardy grape vines, 5 acres of U-Pick blueberries, 3 acres of raspberries along with small amounts of apples, pears, plums and cherries all available for U-pick. 8000sq. ft. timber framed banquet facility and tasting room surrounded by beautiful patios and gardens. 4400 sq. ft. processing building. All sit majestically on the Tug Hill Plateau looking out over the Black River Valley. 315-794-8779

**OVER 140 acre farm mostly crop land conveniently located in Manlius.** Ideal mix of woods and open crop land with a hidden pond and streams. Large estate views of the country. 4 barns, each 1,200 sq.ft. Contact Broker Allen Olmsted at 315-682-4500 or [allen@nyland.forsale](mailto:allen@nyland.forsale). Photos and 4k drone video online at [NYLandforsale.com](http://NYLandforsale.com). MLS#s1037386.

115 ACRES 20 miles south of Ithaca. Two-thirds is hay field/pasture, one-third is hardwood forest. Awesome panoramic view from gentle southern slope. Ideal for solar-powered home. Find details at <https://candorlandforsale.blogspot.com/>

**WORKING FARM IN Millerton, Dutchess County, NY.** Farmer to work on or lease our 50 acre farm which includes housing, Horse boarding facility /commercial dog boarding facility. Along with horse boarding, we would like to offer our facility to grow local and or organic produce. Land is presently open well drained hay fields, ponds and artesian well. Some equipment supplied (tractors and implements). Great opportunity for a young farmer looking for land and a facility to grow their business. Chip Barrett 914-474-7695 [Driftwaysfarm@gmail.com](mailto:Driftwaysfarm@gmail.com).

**SALE/RENT 24 acres level farmland with water.** Includes 2 acres with building rights. Manorville, Long Island. Call Peter for more detailed info. 516-658-9670 Leave message.

**MIDDLEBURGH NY 539 acres bordering State land.** 4 bed, 2 bath home has large kitchen/eating area. Ideal for large family/hunting club. Abundant deer, bear and turkey. \$799,000 includes 2 tractors full line of tillage, planting equipment. Country Boy Realty 518-231-2120 or [haroldloder@gmail.com](mailto:haroldloder@gmail.com).

**BEAUTIFUL well-established Apple Orchard in Mexico, NY.** Continuously working orchard in CNY began in the 1920's as Minckler & Martin. 85 +/- in acreage, 20 different varieties of apples, large blueberry patch, Country Store, barns, Morton bldg., comes with a large 7 bedroom, 3 1/2 bath house. Handicapped accessibility. \$450,000 obo. Morgan Moore 315-963-3486 or [MorganM722@aol.com](mailto:MorganM722@aol.com).

## REAL ESTATE BROKERS

15 YEARS EXPERIENCE specializing in Farms & Country Estates in Hudson Valley and Catskills. Exclusively Equine Properties, LLC. Deb Corr & Jess Gocke Licensed NY Broker. 845-294-4224 [jessicagocke@gmail.com](mailto:jessicagocke@gmail.com) or [www.hudsonvalleyfarmforsale.com](http://www.hudsonvalleyfarmforsale.com). 22 Acre Shangri La, 1769 River Front Farm House, 98 Acres for Sale in Warwick, NY.

DO You know the VALUE OF YOUR LAND? Land, farm, acreage, waterfront, equestrian, commercial, residential – CANAAN REALTY is "THE LAND EXPERTS." More than 30 years buying and selling rural land. We have MORE THAN 100 ACTIVE LISTINGS and WE CAN SELL YOURS TOO! Allen Olmsted, Lic. R.E. Broker. 315-682-4500 or [allen@nyland.forsale](mailto:allen@nyland.forsale). All properties found on NYLand.forsale.

**PROFITABLE WORKING DAIRY OPERATION** 545 acres. Candor NY. Turn-key. Includes equipment and cattle. Owner financing. \$1,898,900. New York Land Quest. Call Brian Jackson, Lic. Assoc. RE Broker 607-280-1058 [nylandquest.com](http://nylandquest.com).

ARE YOU looking to buy or sell? FARMS & ESTATES specializing in HORSE PROPERTIES. Jim Feeley 917-816-5736; Dawn Reilly 516-698-0444. Both are Licensed Sales persons with Cronin & Company Real Estate at 61A Main Street, Pine Bush, NY 12566 Office 845-744-6275

# Grassroots Farmers' Market

## EMPLOYMENT

**SHOW HORSE CARETAKER** and/or Trainer. Housing-utilities and compensation based on skill and experience level. Shows and home. Jan 518-756-9777 or 518-466-5342

**GENESEE VALLEY Conservancy** seeks Land Conservationist for farmland protection program, based in Geneseo, working to conserve farms in Livingston and Wyoming Counties. Full time with benefits. Visit website /about/hiring.

**REAL ESTATE AGENT WANTED.** Outdoor enthusiast to help Real Estate Broker with sales of land, farms, and village homes. \$50k+ possible. Must be willing to get NYS Real Estate License. vanbillingsre@gmail.com

**PROPERTY owner** re-organizing historic **CIMARRON RANCH**, in Putnam Valley, NY and seeks new manager. Includes a 30-stall horse barn, miles of trails and a full-size outdoor rodeo/dressage ring. citygrace@aol.com.

**ROOF WORKERS** Needed. Anyone willing to install commercial roof coatings and run their own business? No experience necessary. Training provided. Must be willing to learn 315-857-6200

**PROPERTY MANAGER AND DIRECTOR OF** Agricultural and Naturalist Operations for historic farm in Walton, NY. Now a restorative retreat center for caregivers and progressive change makers. Competitive salary, health insurance, family-sized housing, and entrepreneurial opportunities included. For job description TheUplandsCenterJobs@gmail.com.

**CAREER OPPORTUNITIES** with Sign on Bonus. CNY's premier design/build firm in landscape construction is hiring. If you love the outdoors and are looking to join a professional company, qualified applicants can contribute & grown with a highly reputable organization. We offer 40+ hours a week, benefits, on the job training & a pay check well above minimum wage. For solid careers & year-end bonuses, go to HSLC.CO and click on the red "we are hiring" button to learn more or call 315-682-5552

**SEAWAY RENTAL Corp** has Full Time mechanic position(s) available; 40 hrs per week - no weekends. Applicants should possess experience in diagnosing the electrical and hydraulic systems related to general equipment. Starting annual salary is \$32,000 to \$42,000 upon experience. Paid vacation, paid personal days and paid holidays as well as health and retirement programs. Mail resume to Seaway Rental Corp, 25177 NY State Rte #3, Watertown, NY 13601 or email seawayrental@msn.com.

**BEEKEEPER** to take us from 20 hives to 200 in Victor, NY. Must have commercial and/or queen rearing experience. Part-time/seasonal. Hourly, no benefits. joe@kettleridgefarm.com.

## SERVICES

**NEW pro-agriculture** themed apparel. Pro-GMO, humorous tees, kid's tees, etc by farmers, for farmers. Makes a great gift! www.AGtiveWear.com. Be an advocate. Wear your pride.

**WINTER STORAGE**, Car, Boat and RV. \$12/ft. Cambridge, NY 518-321-4033

**KITCHENS** Custom Built by Horning Woodworking. Kitchens, baths, offices, entertainment. Geneva, NY 14456. 585-526-6100

**CERTIFIED PRODUCTION** Kitchen located in Riverhead NY. Would you like to see your recipe realized in a jar? We do private label and help create your next product. Emilie@farmerskitchens.com or 631-727-7044

**THE FIBERFACTORY** - processing of alpaca and other Natural fibers into Roving, Batts, Felt, Yarn, Finished Products. Wholesalers of Insoles and Dryer Balls. www.thefiberfactory.com or 585-709-5099

**CENTRAL NY Insulation Contractor.** 25 yrs experience; fully insured. Custom fiberglass and Blown-in High Density Fiberglass. New and existing buildings. Residential/Commercial/Homes/Pole Barns/Garages. Snowbelt Insulation. 315-865-4186

**STEEL & ALUMINUM Truck Bodies.** Custom Manufactures by Western Fabrication. Any size. Flat beds, dumps, roll backs, other misc. fabricating. Distributor of Rugby Truck Bodies. 315-827-4008 or fazekasindustries@yahoo.com. Visit us on Facebook. Fazekas Industries in Westernville, NY.

**AUCTIONS.** Reynolds Auction Co. can help with all asset liquidation including farm, horticulture, commercial, restaurant, vehicles, estates, antiques and real estate. www.reynoldsauction.com for upcoming auctions. 315-597-8815

**HICKORY HILL SMOKEHOUSE** custom exempt meat smoking & sausage making. All finished products are vacuum packaged and labeled. 518-875-6048 or www.hickoryhillsmokehouse.com. 3 Courtney Drive in Delanson, NY 12053.

**HOOF TRIMMING.** Serving NY since 2009. 2006 Dairyland Hoof Care Graduate. References available. Based out of Boonville, NY Tim Brockett 814-644-5323

**FASTRACK Distributors** Needed in all areas! Are you willing to help your local farming community by providing their animals health with the #1 Animal Microbial for 30 years? 315-857-6200

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**R&R FENCING** serving Western New York for over 20 years. Fencing for specific needs, safe fence options for horses, riding arenas, Tarter dealer. Brian Ross 585-599-3489. Visit Facebook.

## AG CONSULTING/ENGINEERING

**LOOKING** to help more farmers use crop care products that give you lower input costs with higher yields. Made and owned in USA, Raising farmer's profits in the field! 315-857-6200

**ATTENTION** all Ag & Dairy Business' Stop leaving money behind, and start understanding how to grow your energy savings. Contact Energy Enterprises Inc. today for your free Energy Analysis. 800-724-9394

## AG ACCOUNTING/TAX SERVICE

**ACCOUNTING** and **TAX SERVICES** available year-round for sole-proprietor farms and small businesses. Tax prep for individuals. Finger Lakes Farm Services. William Hudson, EA, Bath NY. Phone/Fax 607-776-6479 or billhud@flmtgif.org.

**PETERS & ASSOCIATES, CPAs P.C. TAX & ACCOUNTING PROFESSIONALS.** Farms, Wineries, Breweries, Businesses, Individuals, Estates, Trusts, Tax Planning, Business Consulting, Bookkeeping, Quickbooks. Rhonda Hutchinson, CPA 315-651-5239 Seneca Falls, Syracuse, Utica, Pulaski. www.peterscpas.com.

## H2A SERVICES

**H2A Complete** paperwork processing \$1,000 up to 5, \$20 each additional worker. Inquire Micosta Enterprises 518-451-0109 info@h2expressinc.com.

**IMMIGRATION ATTORNEY (H2A/H2B Compliance).** Handle all aspects of immigration compliance, visa processing, legal consulting, I-9 compliance/audit issues, deportation defense, wage and hour. L.J. D'Arrigo, Harris Beach PLLC 518-701-2770 or ldarrigo@HarrisBeach.com.

## AG & ENGINE REPAIR

**TIRES: ALL YOUR TIRE NEEDS!** www.FarmersTires.com or 518-712-3394

**SEAWAY RENTAL CORP:** A Honda dealer for sales & service of generators and pumps. We stock

Honda parts and rent equipment for general maintenance. 315-788-4700 or www.seawayrentalcorp.com.

## SOLAR/WIND ENERGY

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## AG LEGAL SERVICES

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**FINANCIAL & TAX ATTORNEYS** serving all WNY counties. Restructuring, settlements, tax solutions, bankruptcy, and other transactions. Free consultations. Michael Weishaar, Esq. Gleichenhaus, Marchese & Weishaar, PC. 716-845-6446 or helpfarms@gmwlawyers.com.

## MISCELLANEOUS

**ANNE PHINNEY** author of Finding My Way to Moose River Farm, a memoir about a happy life spent with extraordinary animals is available for public speaking engagements. mooseriverfarm@gmail.com or 315-369-3854

**"UNDERTAKINGS** of an UNDERTAKER", a memoir book by Stanley Swan, a rural N.Y.S. funeral director. For cost and signed copies, email Stan at undertakings@inbox.com.

**FUEL 4 LIFE NUTRITION** Katie & Adam Becker. Reach and sustain your health goals with a supportive, farmer-friendly community. Visit www.Fuel4Like.info or www.KatieCodyBecker.com. Email katie@katiebecker.com.

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