

# RUTGERS UNIVERSITY

# EQUINE SCIENCE QUARTERLY



From Our Stable To Yours

Summer 2017

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## A New Direction For RUBEA: The Rutgers University Board for Equine Advancement Welcomes New Co-Chairs

**T**he School of Environmental and Biological Sciences at Rutgers, The State University of New Jersey, differs from other schools at Rutgers because in addition to its teaching, the Agricultural Experiment Station and Cooperative Extension strives to implement research and outreach programs which address high priority needs of New Jersey agriculture.

Because the equine industry is recognized as one such high priority, the School established the Equine Advisory Committee in 1992.

This committee, made up of a broad base of horse industry representatives and equine enthusiasts, was formed to assist the school in decisions regarding its equine teaching, research and outreach programs, and to promote and support these activities.

Later renamed the Rutgers University Board for Equine

Advancement (RUBEA), the board recently celebrated its 25 year anniversary.

The new co-chairs of the board, Amy Butewicz and Warren Zimmerman, were formally introduced at a VIP reception following the recent "Horses 2017" Conference. Attended by many Equine Science Center supporters and leaders from the industry, the reception showcased some of the many recent accomplishments and achievements of the Center.

Dr. Butewicz, a lifelong New Jersey resident and equestrian, has immersed herself in many aspects of the equine industry over the years.

From an early age, Butewicz participated in the 4-H horse program on the local, state, and national levels garnering many accomplishments.

In 2001 she was crowned the NJ State Equestrian of the Year for

# From The Clubhouse



Dear Friends,

Lots of things have been happening since Ag Field Day, which marked the end of our year-long celebration of the Center's 15th anniversary. We're still getting comments about the highly successful Horses 2017, with many of you wondering when we will host a conference like this again! Look forward to returning to campus for the Horse Management Seminar in 2018 with plans for another "Horses" event in the coming years.

We woke up on April 29 to picture perfect weather for Ag Field Day at Rutgers Day. Over 3,000 people walked through the Equine Exercise Physiology Lab. By noon, all of our Center giveaways were gone and we had a full house for Randy's two high-speed treadmill demos. It's always great to spend the day with current and former students and their families. Take a look at some of the great **photos from the day!**

The restructured Rutgers University Board for Equine Advancement is excited about its role in helping ensure the future of the Center from an advocacy and financial standpoint. Thanks to our new **RUBEA co-chairs Amy Butewicz and Warren Zimmerman**, I'm confident that we will have strong leadership going forward.

At the end of May I attended the **National Association of Equine Affiliated Academics and the Equine Science Society**, May 29 – June 3 in Minneapolis, Minnesota.

Krishona Martinson from the University of Minnesota did a fabulous job of organizing the event. We were all treated to some wonderful horse farm tours, I finished the 5K Fun Run (I believe I was the oldest contestant!), Ken McKeever was elected Society President, and Carey Williams was elected to the board of directors at the general business meeting.

It was a good time for sharing quality equine science in a very convenient location. In 2019 North Carolina State will host the meeting at the new Tryon Equestrian Center.

On July 7 I attended a special tour of Special Strides, the therapeutic riding program run by Laurie Landy at Congress Hill Farm.

I participated in the **Scientists Roundtables for STEM education** discussion for students interested in science careers at the Cook Campus Center, on July 11, followed by our annual Summer Showcase on July 12 (**story page 10**).

On July 18 we hosted a group of students from the **Jilin University Student Summer Program** who had never seen a horse before!

Next on our agenda is the Hambletonian Veterinary Conference on August 4 at the Meadowlands Hilton. This has become an annual event for the Center as we share our knowledge with veterinarians from around the country. It's nice to also be able to witness the finest in harness racing at the Meadowlands Racetrack on Friday night and Saturday on Hambo Day.

If you look to the events section on the next page, or visit the events page on our website you will find that there will be plenty of opportunities to visit with us in the coming months.

We look forward to seeing you at Freehold Raceway on September 16 for the Open Space Pace, and don't miss our annual Evening of Science and Celebration on November 9th at the Cook Campus Center.

All the Best,  
karyn

# PARTNERS



New Jersey Farm Bureau's primary purpose is to represent the overall interests and improve the financial well-being of farmers and our \$800 million industry. NJFB activities are supported through voluntary membership and annual dues. Members have access to:

- Staff assistance on farming issues and regulatory problems.
- Educational workshops on topical issues such as farm labor, wildlife damage, and zoning.
- Weekly updates on legislation news and regulations affecting all aspects of farming.

It pays to be a NJ Farm Bureau member! For a full list of membership levels and benefits, or to sign up, visit: [www.njfb.org](http://www.njfb.org).



UMH Properties, Inc., is a real estate investment trust that owns and operates manufactured home communities in seven states throughout the north-east.

UMH has been in business since 1968, operating as a public company since 1985. Owning a portfolio of over 90 manufactured home communities, housing approximately 15,700 home sites.

In addition, owning over 810 acres of land for the development of new sites. It is our mission as a company to provide the best quality affordable home for the hard working residents of Pennsylvania.

UMH communities are perfect for residents of all ages, let us help up you find your dream home today.

For more information about UMH Properties, Inc., please visit: [www.umh.com](http://www.umh.com)



The New Jersey Department of Agriculture (NJDA) is an agency which oversees programs that serve virtually all New Jersey citizens. One of the Department's major priorities is to promote, protect and serve the Garden State's diverse agriculture and agribusiness industries.

In addition to the programs we offer to support production agriculture, NJDA also manages programs that feed schoolchildren, distribute surplus federal foods to soup kitchens and pantries that serve our needy citizens, conserve precious soil and water resources, protect farmland from development and preserve it for future agricultural use, expand export markets for fresh and processed agricultural products, and promote our commercial fishing industry, and administer the complete program of agriculture, food and natural resource education, which includes the State FFA Association.

For more information about NJDA, please visit: [www.nj.gov/agriculture](http://www.nj.gov/agriculture)



Merial recognizes that diseases pose a significant threat to the health and well-being of horses, and that's why Merial is at the forefront of supporting horse owners and veterinarians in their efforts to keep horses healthy.

In addition to providing a wide array of vaccines and pharmaceutical products for horses, Merial engages veterinarians and horse owners in educational programs and online tools to build a greater awareness of diseases and the importance of prevention.

These resources, along with industry-leading products enable us to help veterinarians and horse owners keep horses healthy.

## UPCOMING 2017 EVENTS

### 2017 Hambletonian Continuing Education Seminar: Wet Labs

Thursday, August 3, 2017

Meadowlands Racetrack  
1 Racetrack Drive  
East Rutherford, NJ 07073

[Gordon@firstchoicemarketing.us](mailto:Gordon@firstchoicemarketing.us)

### 2017 Hambletonian Continuing Education Seminar

Friday, August 4, 2017

Hilton Meadowlands Hotel  
2 Meadowlands Plaza  
East Rutherford, NJ 07073

[Gordon@firstchoicemarketing.us](mailto:Gordon@firstchoicemarketing.us)

### 6th Annual Open Space Pace and Festival of Horses

Saturday, September 16, 2017

Freehold Raceway  
130 Park Ave  
Freehold, NJ 07728

[BTaft@umh.com](mailto:BTaft@umh.com)

### Evening of Science & Celebration

Thursday, November 9, 2017

G.H. Cook Campus Center  
Rutgers, The State University of NJ  
New Brunswick, NJ

[kylehart@njaes.rutgers.edu](mailto:kylehart@njaes.rutgers.edu)

For more events, visit our website @ [esc.rutgers.edu](http://esc.rutgers.edu)



# RUBEA Welcomes New Co-Chairs

Continued from Pg. 1



RUBEA Co-Chair Warren Zimmerman, Center Director Karyn Malinowski, RUBEA Co-Chair Amy Butewicz, and Dean of Development SEBS Melissa McKillp at the VIP Reception at the recent "Horses 2017" Conference.

her strong leadership background. She continues to give back to youth through her personally sponsored scholarship, the NJ Agricultural Achievement Award.

In 2008, Butewicz graduated summa cum laude from the Rutgers University Ernest Mario School of Pharmacy with a Doctorate Degree (PharmD) in Pharmacy, and was a member of the RhoChi national pharmacy honor society.

In 2009, she completed a one year post graduate residency in Critical Care and Infectious Disease at Saint Barnabas Medical Center in Livingston NJ. From 2009-2015, she was the supervising IV pharmacist for a leading long term care pharmacy in Monmouth County.

She eventually decided to change career paths, and even though she continues to hold an active pharmacy license in the states of NJ and KY, her new direction brought her back to her original love of horses.

Butewicz's deep connection to horses, agriculture, and open space in New Jersey led

her to obtain her real estate license in 2015. She currently works as a full time Realtor for Keller Williams Realty, specializing in equestrian properties, farms, and land across the entire state.

Both she, and her sister Stacy, operate their real estate team under the Butewicz Equestrian Lifestyle Real Estate banner.

"I am honored to be chosen as a co-chair for RUBEA. My commitment to the equine industry in the state has solidified my desire to give back to the Rutgers University Equine Science Center," said Butewicz. "Rutgers has always embodied world class education and its connection to horses through the Equine Science Center is a tremendous asset not only to the state but both nationally and internationally.

Mr. Zimmerman, an Information Technology (IT) Executive with 30+ years of experience, might not seem like a shoe-in for an equine board, but with a strong leadership resume and an early love of horses he has fit in just fine.

He also joins the board as an alum of the

university, having studied at Rutgers University working toward a degree in Information Technology & Business Management.

Zimmerman started his career in IT working for Rutgers University while he studied at the university. He worked at Rutgers for 14 years, of which 11 years he was an executive providing leadership for the University Administrative Data Center.

Zimmerman's successful career included providing executive leadership for companies such as AT&T, CitiBank International, First Investors Corp, Pfizer Pharmaceutical, Johnson & Johnson, CVS Caremark, and Chubb & Son Insurance.

While working for these companies he led teams in the areas of infrastructure transitions, technical support, project management, information security, business continuity, and global disaster recovery development and planning.

From 1990 to 2002 Zimmerman was CEO and President of Optical Systems, Inc. (OPSY), a publicly traded IT software company that he founded and took public (IPO) in 1993. The company developed software and provided Y2K solutions for many fortune 200 companies.

Zimmerman has also served on the Board of Trustees for the State Theatre for 8 years, 5 of which were as Chairman. Besides co-chairing RUBEA, he currently serves on the Board of Advisors for the Rutgers Business School, and served for two years on the Embrace Kids Board.

"Being a horse owner for most of my life and having a great appreciation for the horse industry, I was extremely impressed with the research and teaching of the Equine Science Center, said Zimmerman. "It is my honor to co-chair this exciting board along with Amy to help support the Equine Science Center in continuing its exemplary research and teaching."

Center Director, Karyn Malinowski and VP

for Advancement and Strategic Partnerships for SEBS/NJAES, Melissa McKillip are "thrilled" to have the revitalized board begin its work. "We wish them the best in helping us achieve the Center's mission of 'Better Horse Care through Research and Education' for decades to come", said Malinowski.

RUBEA members provide volunteer leadership functions to the Equine Science Center and are selected for their leadership within the equine community or dedication to its advancement, their ability to advise the Center on its direction and work product and to identify development opportunities for the Center, and their willingness to financially support the Center in its work.

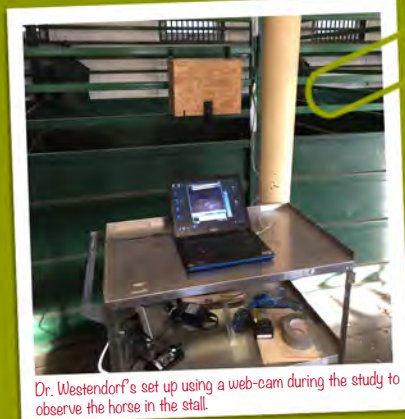
Besides personally pledging a gift, each member fundraises to the best of their ability to bring in additional donors and/or additional contributions annually.

Members also serve as advocates for the work of the Center, the School, and the Experiment Station among their many stakeholder groups. These can include the University administration, alumni, students, prospective students, potential donors, employers, professionals, and the general public.

My goal is to hold to the highest regard the mission and vision of the board to continue to perpetuate the Center as a renowned and respected institution well into the future," said Butewicz. "I am beyond excited for what the future holds and look forward to working with a wonderful Board to keep the Center at the forefront of equine research and education."

Butewicz and Zimmerman are joined on the board by past chairs, Sandy Denarski, Taylor Palmer, Jr. and Ryck Suydam, as well as members-at-large Sue Agopian, Dr. Michael Fugaro, Dylan Klein, Sam Landy, Rod Law, John Maieron, Dr. Karyn Malinowski, Cathy Nicola, Sharon Ortepio and Max Spann, Jr.





Dr. Westendorf's set up using a web-cam during the study to observe the horse in the stall.

Lab Notes - Dr. Westendorf

# From The Lab: Better Bedding

A study recently conducted in Mike Westendorf's lab was completed this past winter (2016-17). The study compared two levels of bedding in horse stalls and the their effects upon bedding utilization, cost, animal and stall cleanliness, and the production of particles in the stall.

Westendorf hypothesized that lighter bedding would be superior to heavier bedding as determined by particle release, use and cost of bedding, animal and stall cleanliness, and ease of disposal.

The specific objectives were to:  
1. Measure bedding utilization in light and heavily bedded horses; 2. Measure particle size production in light and heavily bedded horses; 3. Compare animal and stall cleanliness in the two treatments; and 4. Conduct a composting study using the two bedding types.

The research project utilized 10 horses, and bedding depths of 4 inches and 8 inches were compared in stalls bedded with wood shavings.

A particle analyzer, as shown in the accompanying image detected particles in the levels of <2.5 microns, <10 microns, and total particles; and a web camera was used to determine animal movement.

## Top 5 Bedding Facts

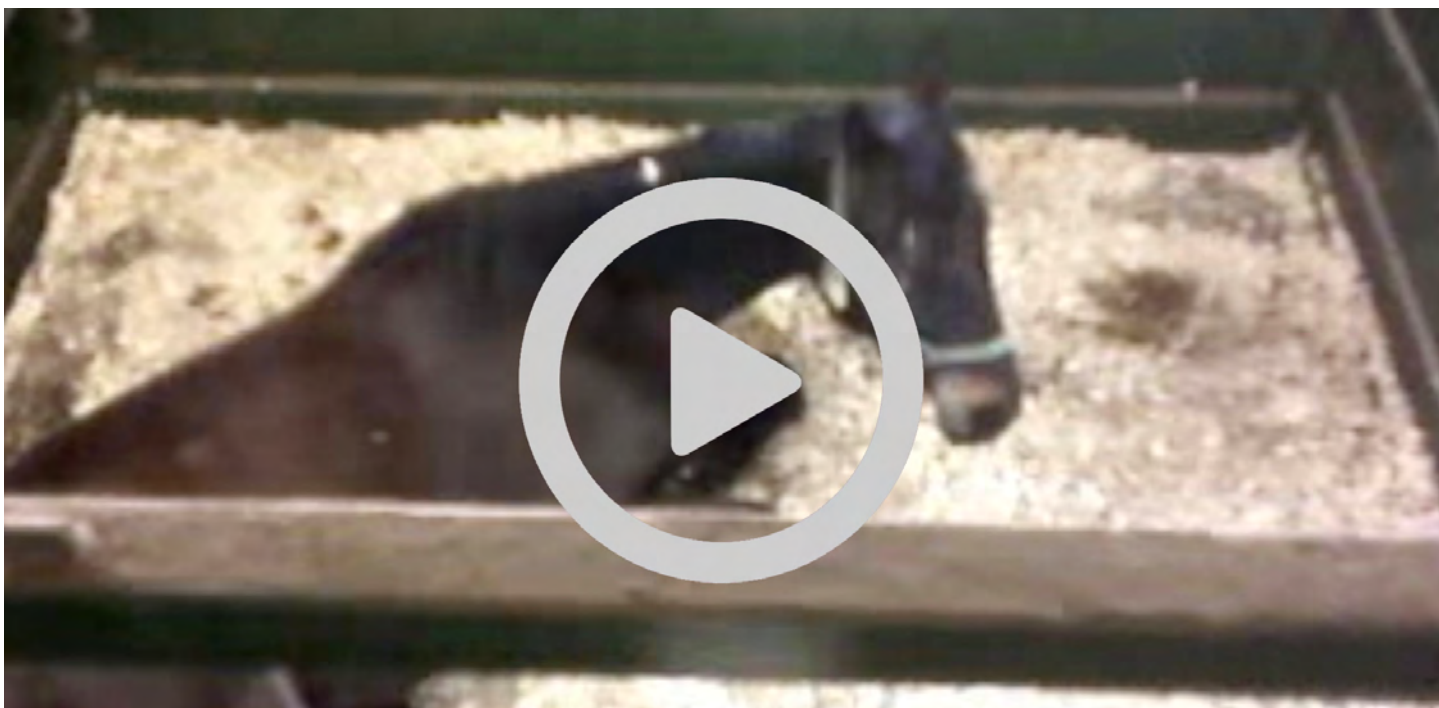
#1

Amount of manure and bedding removal is not dependent upon amount of bedding used.

#2

It's unclear how behavior is affected by bedding, as compared to animals stalled without bedding.





To view a brief clip of the web-camera footage, please click on the link above, or visit the Equine Science Center's YouTube page.

*Estimates of bedding use and animal responses were determined daily. The researchers undertook the study because they were concerned that many people in the equine industry over-bed stalls, especially with wood shavings.*

*Preliminary results show that there was significant particle production in both the heavily and lightly bedded treatments, there was minor particle production when no*

*bedding was used, the amount of manure and bedding removed was similar between lightly and heavily bedded groups, and neither group composted well and required other additions (water, nitrogen).*

*Westendorf looks forward to presenting further findings as he continues to analyze the data, as well as the video taken during the study.*

**#3**

Stall waste with shavings does not compost well.

**#4**

The video-taping indicated that there was no differences in behavior between the two treatments.

**#5**

Bedding stalls causes particle production.

# What We've Been Up To

## *2017 National Association of Equine Affiliated Academics & Equine Science Society Meetings*



Pictured are newly elected ESS President Ken McKeever joined by Center director Karyn Malinowski and their family of past and current Rutgers University graduate students at the Equine Science Society Awards Banquet in Minneapolis.

## *Rutgers 4-H STEM Ambassador Program*



Karyn Malinowski participated in a speed training workshop for inner city youth interested in careers in STEM disciplines on July 11 at the Cook Campus Center.

Now in its 8th year, this is a 5-day residential on-campus program for high achieving high school students who are under-served and underrepresented in STEM. They meet a variety of Rutgers scientists, do a short research project, and get trained in STEM activities to share with their communities.



## *RUBEA Meeting*



On July 14, the Equine Science Center's board of directors, RUBEA, met at Monmouth Park Racetrack. The event was hosted by board members Ryck Suydam and Cathy Nicola. The Rutgers University Board for Equine Advancement sponsored the first race of the card, which was won by Stadium, trained by Kathleen O'Connell (far left) and ridden by jockey Antonio Gallardo (to her right).

## *Jilin University Student Summer Program*



On July 18, faculty, students, and staff from the Equine Science Center hosted a delegation of students from China at the Equine Exercise Physiology Lab and at the Environmental Best Management Practices Demonstration Horse Farm on Ryders Lane. Around 50 students, many of whom had never seen a horse in person, were treated to a High-Speed Treadmill Demo and braved the heat for a tour of Ryders Lane.



# 2017 SUMMER SHOWCASE

**A day filled with fun and information for people of all ages and equestrian disciplines.**

On July 12, the Rutgers Equine Science Center presented its 2017 Summer Showcase to an enthusiastic crowd who weathered the sweltering heat at the Cook Farm.

The event opened up with a welcome from Center Director, Karyn Malinowski, followed by an exhilarating treadmill demonstration from Randy, our trustworthy equine star.

Attendees were then broken up into three groups which alternated between a discussion of the Center's research by Ken McKeever and Dylan Klein, an anatomy lesson with Carey Williams and RU Wishbone, and a game of Equine Jeopardy presented by Jennifer Weinert.

This year, Equine Jeopardy focused on equine vaccinations and stressed their importance to ensure protection against disease for all horses. The questions focused not only on the vaccinations, but also the diseases and symptoms of the most common viral and bacterial diseases. Winners of the game received the Equine Science Center's "Equine Vaccinations" educational resource packet, which includes cards for these viral and bacterial diseases, as well as two-pull out infographics showing the recommended vaccination schedule for horses.

Some of the Center's close friends in attendance included RUBEA chair Amy Butewicz and board member Sam Landy, Christopher Manente from the Graduate School of Applied and Professional Psychology, Joseph Freeman from Biomedical Engineering, and alumni of the College of Agriculture & Environmental Sciences Ella and Kevin Boyd.

The Boyds, who attend many of the Center's events, are also the proud sponsors of Bonnie, one of the many research mares at the University.

The Center was yet again thrilled to have its fan club of 4-H members from Monmouth County in attendance, who are always successful at winning rounds of equine Jeopardy, and are a credit to the success of the 4-H Horse Project. The Center's next event will be The Evening of Science & Celebration on November 9th, at the Cook Campus Center.





To see more of the pictures from the event, please go to: <https://goo.gl/PtNCVm>



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