



North American **MANUREXPO**

Professional Manure Management

Prairie du Sac 2012 Wisconsin

AUGUST 22, 2012

**PROFESSIONAL
APPLICATION:
INNOVATION &
TECHNOLOGY**

USDA Dairy Forage
Research Center,
Prairie du Sac, Wisconsin

PRESENTED BY

Professional Nutrient Applicators
Association of Wisconsin

University of Wisconsin Extension
Nutrient Management Team

USDA Dairy Forage Research Center

WWW.MANUREXPO.COM



MANURE HANDLERS WAREHOUSE

Send us
your Krohne
meter for yearly
calibration or
repair!



Hydraulic Manure
Pit Pumps
800 to 3000 GPM



Pumping Units
Featured with
Pioneer Pumps

Hose Reels & Humpers



34' & 46' Pull-Type Injectors



Pumping Units with 38' Boom



Manure
Balls & Bullets for
Lay Flat Hose
Cleaning



16'-23'-27' & 30' 3-Pt. Hitch Injectors

- ✘ 1200 – 3000 GPM Engine Drive Pumping Units.
- ✘ Hose Reels To Handle 1 Hose To 1.5 Miles Of Hose.
- ✘ Many Types Of Hose Couplers, Hardmenders & Repair Hose Pinchers.
- ✘ Hydro Shug Grip – Ringlock – Bauer – Delie – Camlock Fittings.
- ✘ Many Sizes Of Layflat Mainline And Draghose – Suction Hose.
- ✘ Magnetic Flow Meters
- ✘ Stainless Steel Knife Valves
 - Brass Gate Valves – Gate Valves
 - Stainless Steel Risers.
- ✘ Many Sizes Of Flanges
 - Steel Weld On Fittings
 - 10-14 Gage And Schedule 40 Types.
- ✘ Rubber Gaskets
- ✘ Traveling Guns
- ✘ Equalizer Manifolds For Tank Wagons & Draghose 3 Pt And Pull Type Toolbar Injectors.
- ✘ Hose Humpers – PTO Air Compressor
 - Jag Swivels – Hose Road Ramps.

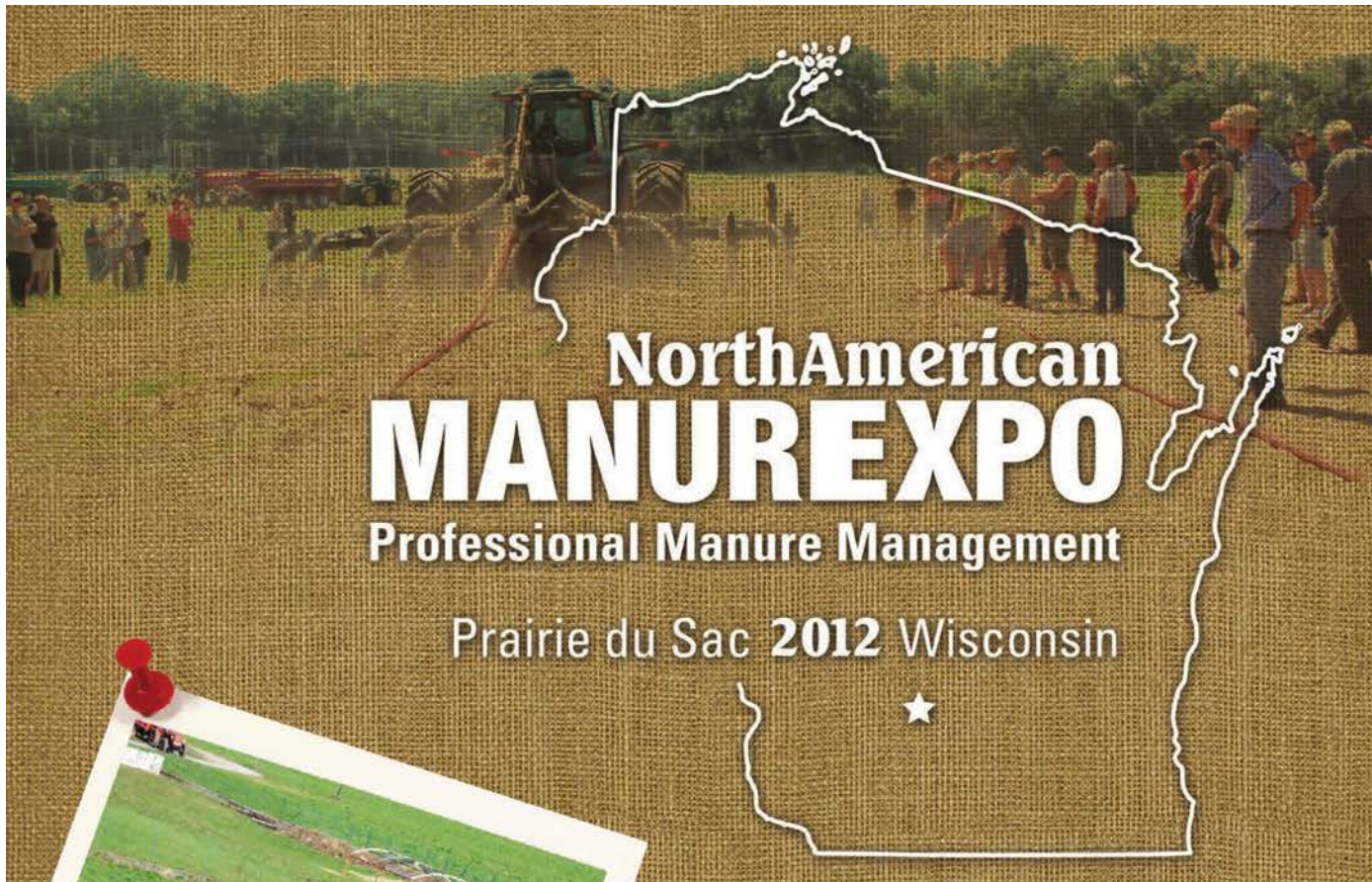
Call to order your 2012 Parts Warehouse Catalog.

Call for any type of Water or Manure Pumping Equipment

HYDRO ENGINEERING

Old School Knowledge with New School Excellence

800-833-5812 • www.hydro-eng.com



North American **MANUREXPO**

Professional Manure Management

Prairie du Sac 2012 Wisconsin

4 **THANK YOU** to our sponsors

5 **MESSAGE** from the expo chairs

8 **EXPO** presentations

15 **EXPO** schedule

18 **EXHIBITORS**

19 **OUTDOOR** displays

2012 SPONSORS

THANK YOU!

PLATINUM



Professional Nutrient Applicators Association of Wisconsin



Dairy Forage Research Center



SFP More than Manure



University of Wisconsin-Extension



Professional Dairy Producers of Wisconsin



University of Wisconsin, United States Department of Agriculture and Wisconsin Counties Cooperating



Manure Manager

GOLD



Hydro Operating LLC



UWEX Nutrient Management Team



Puck Custom Enterprises, Inc.



University of Wisconsin-Platteville

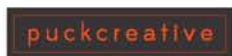
SILVER



AgriView



Redwood Metal Works



Puck Creative



Environmental Resources Center



Northern Biogas

BRONZE

Bugtussel Wireless

Firestone Specialty Products

Sauk County Pork Producers

Sauk Prairie Chamber of Commerce

PROFESSIONAL MANURE MANAGEMENT

The theme for this year's North American Manure Expo – “Professional Manure Management” aptly fits the 2012 event. From high-end computer/GIS technology that immediately alerts the applicator that a problem is developing to applicator-developed unique mechanical innovations to remove sand from manure storage and move manure over busy highways, **Professional Manure Management** means getting the job done the right way, every time.

The livestock industry in Wisconsin produces the equivalent of 13 billion gallons of manure annually. That's enough manure to cover a professional football field (including the endzones) to a depth of 5¼ miles. Wisconsin applicators began taking a more proactive role in their industry over 10 years ago, forming a professional association (the Professional Nutrient Applicators Association of Wisconsin, or PNAAW) to help members stay abreast of and provide input on regulations and to improve professionalism in the industry. A decade later, PNAAW is nationally recognized as a leader in reducing manure's environmental impact while helping livestock farmers meet the ever-changing regulations that impact manure application.

The North American Manure Expo's humble origin began when PNAAW members asked UW-Extension to bring a few equipment companies together and demonstrate different spreaders “head to head”. The first show, held at this same farm in 2001, drew 435 manure applicators from 5 states. The Expo has grown since, rotating to 6 other states (IA, NE, MI, MN, OH, PA) and drawing an average of 1,000 people from North America, Europe and Australia. Key to the Expo's success in each state is the active involvement of commercial manure applicators in every aspect of the event.

The Expo demonstration and education program shows the advancement by both industry manufacturers and applicators. Many of the application companies have developed specialized equipment to help them deliver the best value to their clients. Our demonstration program will include equipment that can improve manure agitation to deliver a more uniform product to the field or aid application over longer distances while reducing potential residential conflicts. Application of technology has been rapidly applied to monitoring and control of equipment, GPS guided application, and in advancing the basic manure spreader to a machine that can deliver prescribed application rates. The importance of research in advancing BMP's for manure application is evident in the seminar topics such as nitrification inhibitors for manure, timing and application methods, reducing impact on roads, and improving nutrient utilization.

While the industry strives to make improvements, accidents and manure spills can still happen. Knowing how to handle a spill can minimize or avoid environmental impact. A live-action manure spill response session will demonstrate practices that help avoid environmental impact during manure application and procedures to follow in event a manure spill does occur. The spill response demo will show us components and implementation of a spill response plan.

The North American Manure Expo is North America's largest manure education and demonstration event. Applicators and farmers from across the country will see innovations that will help them meet tomorrow's environmental challenges. But just as importantly, you will see and learn how to improve implementation of nutrient management plans. From innovations in agitation that will ensure a more consistent nutrient and solids content, to pumps that automatically shut down when a leak occurs, to variable rate spreaders, you will see how to apply manure safely and more accurately.

The Expo is a collaboration between the Professional Nutrient Applicators Association of Wisconsin and UW-Extension with the essential support of many partners in the manufacturing industry, University of Wisconsin, and agriculture agencies. The 2012 Expo has a great site and partner in the USDA Dairy Forage Research Center farm. The farms' manure storage facility can accommodate lagoon agitation demonstrations with field accommodation of solid and liquid manure applications. The UW-Extension Nutrient Management Team has provided professional support of the many components of Expo, including the education program, web site, and bringing in the financial support of our manufacturing participants. Members of the Professional Nutrient Applicators Association have brought their expertise and innovations to the Expo highlighting business development in their industry. Advancement in manure management in Wisconsin has always been seen as a partnering opportunity with neighboring states. This is evident in the travel of the Expo and in the contribution from neighboring State Universities and professional applicators.

We look forward to this opportunity to support farmers and applicators in Wisconsin through a program that addresses public concerns in Wisconsin while supporting the economically important agricultural industry of the U.S.

Ted Bay

Grant and Lafayette County Crops and Farm Management Agent, University of Wisconsin Extension

Kevin Erb

Conservation Professional Development and Training Coordinator, University of Wisconsin Extension

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.