

## GEA MILK HARVEST

GEA believes, as do our Pacific Dairy techs, that the milk harvest must be done gently, quickly and completely. Also, it must be done safely to protect teat health through proper vacuum settings and the integrated operation of the milk harvest system—i.e.: Parlour or Robot. The so-called “Claw Vacuum” which most people talk about, can vary from farm to farm. We have to consider that claw vacuum level settings must work in unison with liners, pulsation and other operating parameters to deliver the desired performance. One recommended vacuum level cannot be attained for every dairy because of liner design, operator routines and pulsation settings. Every dairy can be different.

## INNOVATIVE YOUTH

Once a year, there is a competition of students in Florida and New York with stakes of \$100,000. It is called the Siemens Competition in Math, Science and Technology. A student named Maria Elena won \$100,000 with a new method to remove sulfamethazine, a commonly used veterinary antibiotic, which is a common contaminant damaging both soil and water systems. Maria's method utilized small plastic beads (which can be reused) applied at scale and implemented using delivery systems already in place for treating drinking water. Her journey of discovery showed perseverance in originally looking for a solution to clear up drinking water.

*(from Businesswire.com)*

## DAIRY FIBRE TIPS

As more and more dairies across North America choose a Processed or Non-Processed form of manure fibre to bed free stalls with, methods and protocols are getting more common. In talking to other dealers and manufacturers, all agree in the importance of consistent stall management with a consistent product, cooked or green. The following is a good list:

- Dig out or Clean wet spots every day.
- Use Lime if possible to dry beds.
- Always keep stalls level.
- Never lay fresh bedding under udders.
- Keep afterbirths, etc. out of manure system.
- Pull bedding back from front of the stall.

- Green bedding works best on frequent filling.
- Bedding Makers help reduce fatty acids and organic loads of the fibre solids.
- Most green bedders move manure once to allow some compost action.
- Dryness of material should be 32 to 38%.
- Skiff spreading also dries the material.
- And finally, watch equipment closely!

## WHIPPED CREAM

With tests done by America's Test Kitchen in Cook's Illustrated, it was proven that for maximum volume and best texture, it is critical to use cream straight from the refrigerator (even the bowl and beaters). The explanation is that whipping cream introduces air bubbles. When the cream is cold, these bubbles are held in place by a network of tiny globules of solid fat, which allows the cream to eventually expand into a light air mass. If starting at a warmer temperature, that fat starts to soften and the globules collapse so the cream can't whip up as fully and it takes longer to reach its maximum but diminished volume. The extended whipping also will give it a grainy texture. Keep it cool and it's all good!

## GEA-HOULE

In the reputation and history of farm equipment manufacturers, Houle stands out as a strong Canadian legend. Since their inception in 1955 in Drummondville, QC., they have dominated the manure landscape in North America all while keeping their good name and a strong, steady network of dealers. The following are some of their recent announcements:

- New stainless steel option for Manure Tanks.
- New Deep Groove scraper heads.
- New Articulated Agi Pump heads.
- New Dual or Triple head agitators.
- New Corners for Chain Scrapers same as cable.
- New Screen Press Separator to be unveiled.
- New Centrifuge Manure nutrient separator.
- New Cable scraper drive units.
- New double 6000Gal manure spreaders.
- New 850 Tires for manure spreaders.

And finally, GEA-Houle will be introducing their new invention, a new style Robotic Rotary Deck which will be featured at Vyefield and Gracemar Farms, Canadian Built!

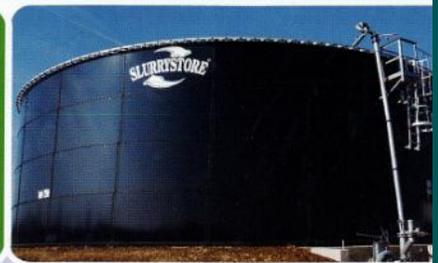
## TELLSPEC

Tellspec is a new hand held device that can scan food at a molecular level. This new device provides information as to what is in food so consumers can make informed decisions that better match their health needs. It is the world's first consumer hand held device of its kind. It includes the scanner, a cloud based patented analysis engine and a mobile app that works together to scan foods, identify calories, macronutrients, allergens, fibres, sugars and nutrient info such as glycemic index, all with one simple scan. *from tellspec.com*

## BARN UPGRADES

The following is a list of good upgrades for the farm, while improving efficiencies and generally making life easier for you and the cows.

- Add more cow brushes.
- Add manure scrapers or renew the old ones.
- Replace Parallel front ends with GEA 90i.
- Get Cow Scout 24/7 activity for Cows and Heifers.
- Put soft start on electric motors.
- Get Radio Controls for your drag system.
- Open top of Barns with chimney or curtains.
- Get More Fans—Get More Fans.
- Get newer style curtains.
- Put in rubber where cows need it the most.
- Overkill your hot water system.
- Use a lime spreader, always good!
- Automatic Footbaths are a must.
- Feed pushers have great benefits.
- Consider LED for new barns and to replace old lighting.
- Bird guard netting useful to prevent roosting.
- Spraying greenhouse lime on Roof is good to cool the barn.
- Either get or add sort gates to make life easier.
- Check Milking System more often.
- Be careful with manure additives.



- Now's the Time
- Flexible Options
- EQIP Hotline

## SLURRYSTORE- NOW'S THE TIME.

### Manure storage ahead of its time.

How often have you heard a new product described as being ahead of its time? That very well could have been the comment about Slurrystore® when it was introduced in 1975.

Back in 1975, the average size dairy farm was 25 cows. The average size hog farm was 74 and the average size beef operation was 71. The question wasn't so much "how am I going to manage my manure?" but "which field is today's load going to go on?"

The consolidation and evolution of the dairy and livestock industry has brought many new challenges to manure management. In fact, many farmers rank manure management as their top concern in their operation. New environmental regulations and community pressures mean that farmers must have dependable manure storage and a comprehensive plan on how they will deal with its treatment and disposal.

"Twenty years ago many farmers would have liked to have a Slurrystore, but felt it was cost prohibitive," says Dick Nelles, Ag Sales Manager for Engineered Storage Products Company. "With the issues farmers face today, you almost can't afford to be without one. It seems that agriculture has finally caught up with Slurrystore technology. In addition, changing economics have had a significant impact on the "math" of owning a Slurrystore as the nutrients stored have a high value. Now is truly the time for Slurrystore to be the foundation for manure management plans for almost every operation."

### A better option for community and environment.

A Slurrystore is a better manure storage option for the environment and community stewardship. Its glass-fused-to-steel construction and robust reinforced concrete floor and foundation minimize the risk

of runoff or groundwater pollution as compared to earthen basins/lagoons, concrete pits or other storage methods.

Slurrystore systems are engineered to the highest standards and conform to USDA-NRCS regulations. It is important to answer the following questions:

- What specification, standard or code does your current manure storage system comply with?
- What potential liability are you exposing yourself to with your current storage system if it is not built to a standard that ensures positive containment?

Slurrystores can help reduce odor – in some cases up to 90 percent. According to Nelles, a Slurrystore, with its above-ground construction, produces a "chimney effect" releasing any odors into higher air currents. Also, a crust will typically form on top of cattle manure sealing in odor. In contrast, it is very difficult to manage odor from earthen basins/lagoons with their large surface area (at and below ground level).

A Slurrystore is the most flexible option for expanding operations providing the ability to increase the size and volume when growth occurs. This flexibility means significantly more storage capacity without increasing the ground footprint and with minimal disruption to surrounding areas.

### Capture more nutrient value

Manure can be a valuable resource in today's world of continually rising fertilizer costs. A Slurrystore is the best option for manure nutrient storage and utilization.

"Research shows that on average about 30 tons of dairy cow manure can provide the total nitrogen to grow 150 bushels of corn," says Nelles. "This really turns what could be considered a liability into an asset."

The Slurrystore agitation system ensures that all nutrients will be evenly mixed throughout the storage unit. This consistent mix means each load removed will have optimum value when hauled to the field.

"The bottom line is you should see better economic return from manure stored in a Slurrystore," adds Nelles.

Farmers can see the economic return for themselves with a ManurePro™ analysis, Nelles advises. "Each of our Authorized Slurrystore Dealers has this economic software. The dealer is also a resource on how to apply for and use EQIP dollars for a Slurrystore system."

There has never been a better time for Slurrystore. Contact your local Authorized Slurrystore Dealer for more information.

### Welcome to the first issue of Slurrystore Today

NOW'S THE TIME to learn more about Slurrystore! At Engineered Storage Products Company, we recognize the importance of reaching out and sharing our information with you. Look for new issues of *Slurrystore Today* to arrive in your mailbox on a regular basis. We'll provide you with the latest updates, research and information on Slurrystore systems. We hope you will look forward to it as a valuable resource as you work to design the most beneficial manure management system possible.

If you have an idea for an article in *Slurrystore Today*, please send an email to John Garnett at [jgarnett@cstindustries.com](mailto:jgarnett@cstindustries.com).



**NOW'S** the time!