Future trends in The Milky Way

ICAR Manufacturers Showcase
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The challenge in modern milk production

- Staying profitable in spite of declining milk prices
- Ensuring professional and cost-effective farm operation in spite of shortage of qualified labour
- Complying with strict rules concerning animal welfare and environmental issues

Management tools in the primary production

The farmer needs analysis on individual cows in order to optimise milk payment, value of bulls and to reduce feeding cost and losses due to diseases
- Feeding optimisation (protein (casein), fat, urea)
- Reproduction control (Progesterone)
- Culling and breeding decisions (protein (casein), fat)
- Disease prevention (Mastitis, Ketosis)

Drivers for centralised milk testing

Solutions for centralised milk testing are preferably mass analysers providing:
- Labour savings through automation
- High analytical capacity and scale of operation
- Low cost per sample
- High accuracy, approved measuring principles (IDF, AOAC, ICAR) and possibilities for proficiency testing
- Possibilities to analyse for parameters, which it would not be cost-effective/technologically feasible to perform at the farm or the dairy
Drivers for on-farm milk testing

Solutions for on-farm testing are preferably online analysers providing:

- Frequent and real time results which combined with advise can be used for immediate improvements
- Labour savings via fully automatic representative sampling during milking
- Possibilities to pin-point suspect cows to sample for more specific analyses in central milk testing lab
- Long term replacement of classical ICAR approved herd recording, i.e., possibilities for proficiency testing

The advantages of on-line analysis

On-line control provides for huge profit optimisation by:

- Increased production yield and savings in raw materials
- Faster production throughput – no stops and no post standardisation
- On-line documentation of production performance
- Better product consistency
- Reduced need for holding capacity
- Labour and energy savings

Pay-back times are typically less than one year

A changing world

On-farm analysis, centralised milk testing and testing at the dairies are undergoing huge changes these days.

There are future perspectives in all areas – and FOSS will remain devoted to all three.

FOSS Charter

FOSS will

- meet consumer demands for safe and healthy products
- assure high animal welfare and protect our environment
- by supporting
- the Dairy Farmer
- Dairy Processor and
- Central Milk Testing Laboratories
- through new innovations
- partnerships with technology partners
- partnership with stakeholders in the Dairy value chain and total coherent analytical concepts

Vision 2015

Dairy Farmer

is using Pro-active Herd Management System and on-farm testing for reproduction, mastitis, ketosis, feeding and milk recording interlinked with advisors, veterinarians, authorities, dairy factories and central milk testing laboratories
Dedicated Analytical Solutions

Vision 2015

Dairy Processor are using extensively on-line analytical solutions for plant automation and process optimization and linking analysers to one global calibration database for efficiency and uniform product quality assurance.

Central Milk Testing are providers of new services to support the Dairy Farmer for monitoring deceases and the Dairy Processor for quality assurance and are linked directly to the Herd Management System and Global Calibration Network.

Herd Navigator concept
On-farm analysis and Proactive Herd Management will be the first of several steps towards the greatest change in management, leadership and advise in dairy production within the last 50 years.

Henrik Nygaard
Advisory Manager Danish Cattle Federation