



IDF key achievements in 2012-2013

IDF Forum

28th October 2013

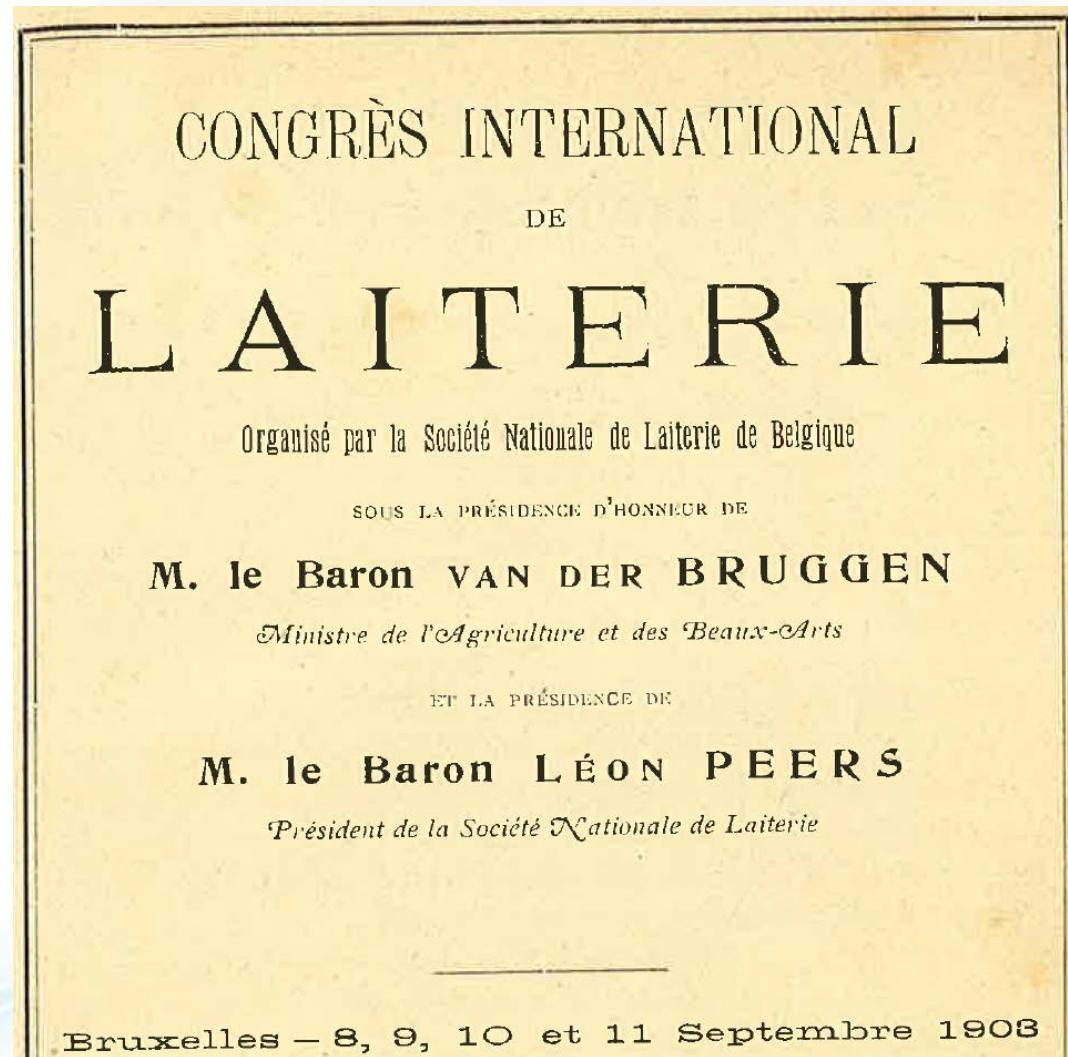
Yokohama, Japan

Nico van Belzen, PhD



IDF FACTS AND FIGURES

- Founded in 1903
- Over 75% of world milk production
- Over 85% of milk powder exports
- >1000 experts
- 18 Standing Committees and Task Forces





INTERNATIONAL DAIRY FEDERATION

MISSION:

IDF represents the global dairy sector and ensures the best scientific expertise is used to support high quality milk and nutritious, safe and sustainable dairy products.



Scientific Excellence



Industry Applicability



Strategic Networking



Global Influence



SNAPSHOT OF 2012-2013

- 12 IDF Bulletins
- 3 ISO/IDF standards
- 5 other publications
- 21 submissions to Codex
- 4 events

**INTERNATIONAL
STANDARD**

**ISO
9622**

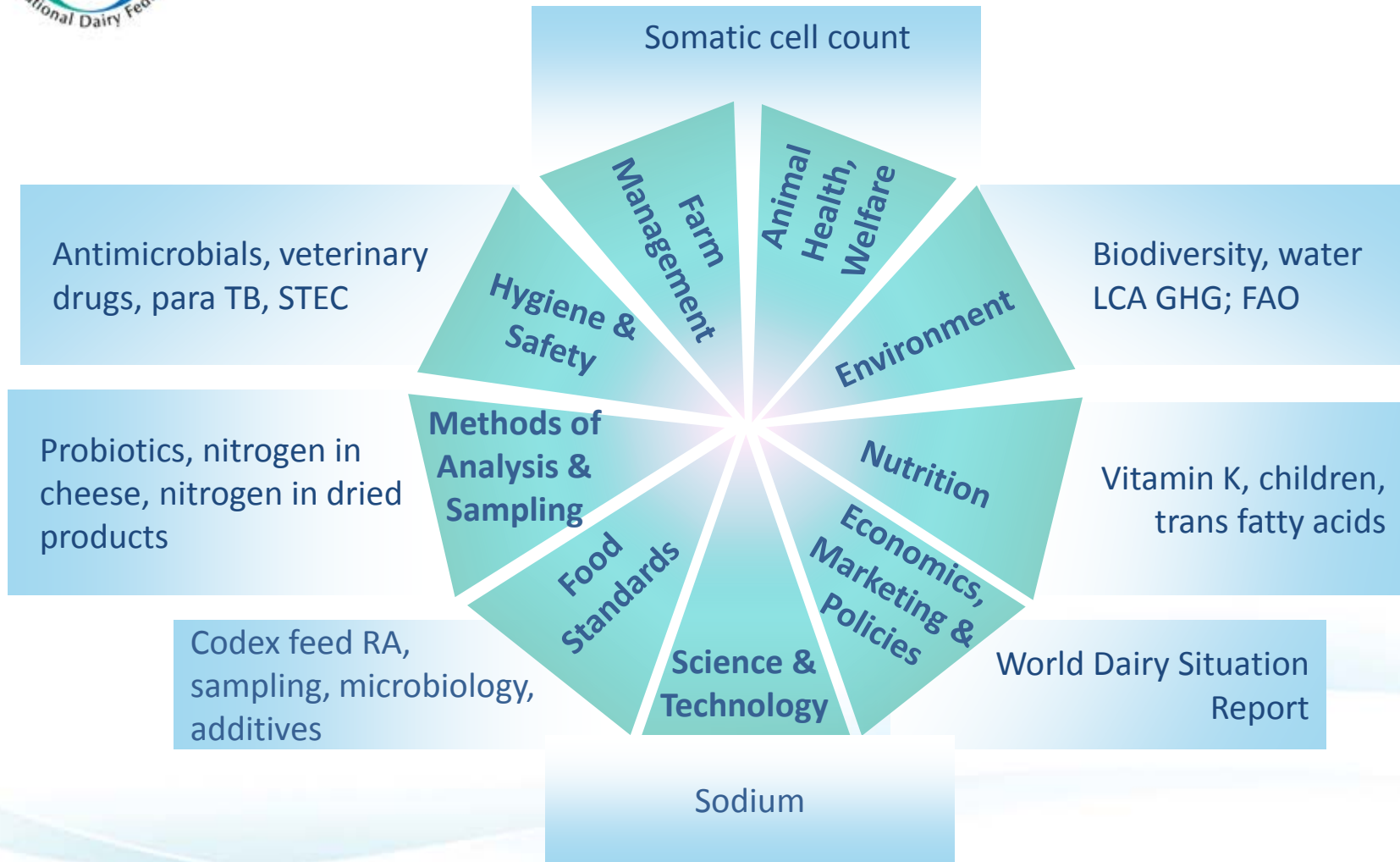
IDF 141

Second edition
2013-09-15

**Milk and liquid milk products —
Guidelines for the application of mid-
infrared spectrometry**



EXAMPLES FROM 2012/2013





SC ON MICROBIOLOGICAL HYGIENE

Contents lists available at [SciVerse ScienceDirect](#)

International Journal of Food Microbiology

journal homepage: www.elsevier.com/locate/ijfoodmicro



Review

Review of Shiga-toxin-producing *Escherichia coli* (STEC) and their significance in dairy production

Choreh Farrokh ^{a,*}, Kieran Jordan ^{b,*}, Frederic Auvray ^c, Kathleen Glass ^d, Hanne Oppegaard ^e, Sabrina Raynaud ^f, Delphine Thevenot ^g, Robin Condron ^h, Koen De Reu ⁱ, Alexander Govaris ^j, Klaus Heggum ^k, Marc Heyndrickx ^{i,l}, Joerg Hummerjohann ^m, Denise Lindsay ⁿ, Stephane Miszczycha ^g, Sylvie Moussiegt ^a, Karen Verstraete ⁱ, Olivier Cerf ^o

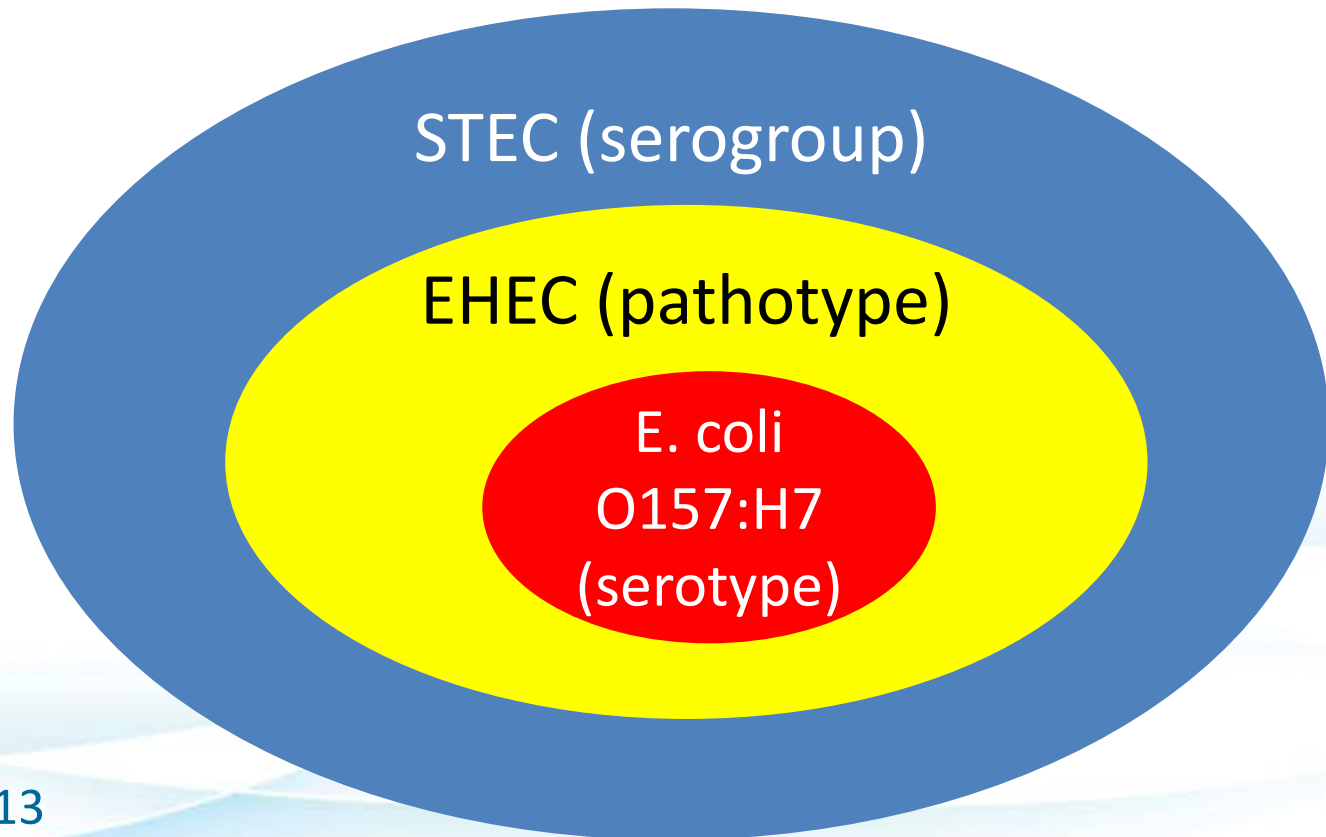
Farrokh et al. 2013

Int J Food Microbiol 162: 190-212

IDF - Global expertise in dairy 6

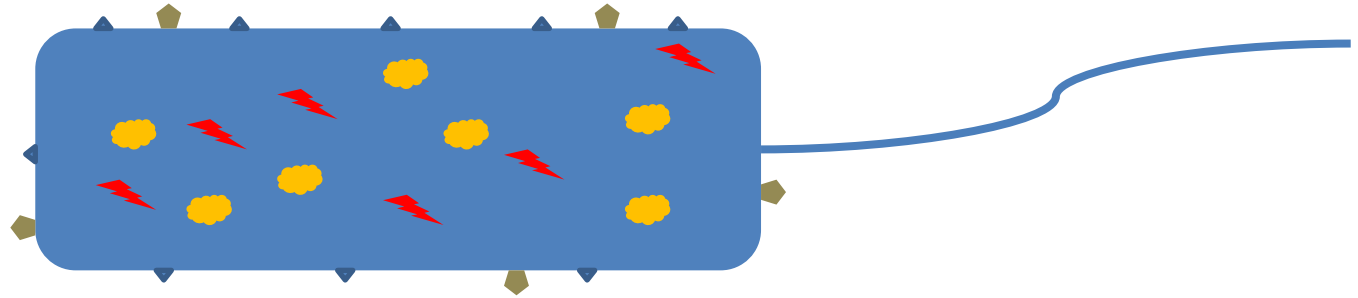
STEC SIGNIFICANCE IN DAIRY PRODUCTION

- Ruminants are healthy carriers of STEC, thus milk and dairy products are potential sources of STEC
- Most STEC serotypes are not pathogens



STEC SIGNIFICANCE IN DAIRY PRODUCTION

- Serotyping based on virulence markers such as shiga toxins, enterohemolysin, intimin, adhesins



- Prediction of pathogenicity not yet possible
- Problems are being avoided by
 - Compliance with good farm practices
 - Heat treatment

SOMATIC CELL COUNT (SCC)



466
2013
Bulletin
of the International Dairy Federation

Guidelines for the use and
interpretation of bovine
milk somatic cell counts (SCC)
in the dairy industry



SOMATIC CELL COUNT (SCC)

Bulletin
of the International Dairy Federation

427/
2008

Towards a
Reference System for
Somatic Cell Counting
in Milk



IDF Bulletin 469,
2013
Requirements for
Reference
Materials for the
Calibration of
Automated
Somatic Cell
Counters



SOMATIC CELL COUNT (SCC)

- Widely used test: > 500 000 000 tests/year
- Important for
 - Udder health status (farm management)
 - Raw milk payments
 - Hygiene regulation (EU 853/2004)
 - Breeding programmes
 - Free and fair trade

INTERNATIONAL
STANDARD

ISO
13366-2

IDF
148-2

Second edition
2006-10-01

Milk — Enumeration of somatic cells —
Part 2:
Guidance on the operation
of fluoro-opto-electronic counters



SOMATIC CELL COUNT (SCC)

- International reference method (microscopic count) used in calibration is tedious, time-consuming and of low precision
- Routine (automated) method lacks primary reference material
- IDF/ICAR Reference system SCC group described requirements for reference materials for calibration of automatic cell sorters (IDF Bulletin 469)
- IDF and ICAR asked EU JRC/IRMM to consider producing a primary reference material



THERE IS MUCH TO DISCOVER!



IDF World Dairy Summit 2013

Rediscovering Milk

28 October - 1 November YOKOHAMA, JAPAN

