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## MESSAGE FROM THE DIRECTOR GENERAL



For someone who sequenced genes by autoradiography decades ago, it has been rewarding to witness the rapid progress that has been made in automated DNA sequencing.

Elucidation of the genetic blueprint of humans has brought great advances to medicine and will continue to do so. Likewise, the decreasing cost of sequencing technology is transforming food research, especially in fermentation and in food safety.

To give an example from the latter, the deadly *E. coli* O104:H4 outbreak in 2011 proved the value of both novel sequencing technology and quick public release of genome sequences. The latter triggered collaboration of an *ad hoc* research group including scientists from all over the world. They rapidly assessed the pathogenic potential of the new strain and designed molecular identifiers that distinguished it from other circulating O104 strains, helping to make informed decisions about source tracking, prevention and treatment.

The full benefits of these technologies will only be gained in an appropriate policy and media environment that prevents alarming, incorrect headlines like “Anthrax detected in New York subway”. Policy makers should carefully consider transparency, openness and adequate data sharing rules that enable the use of data with appropriate consent.

This is my last editorial as IDF’s DG. I’d like to warmly thank my colleagues and collaborators and wish you and the Federation all the best for the future.

*Dr. Nico van Belzen,  
IDF Director General*

## **EXECUTIVE SUMMARY**

IDF participated on behalf of the dairy sector at the 39<sup>th</sup> session of the **Codex Committee on Nutrition and Foods for Special Dietary Uses (CCNFSDU)**. In this issue you can also read about the two latest endorsements of the **Dairy Declaration**, by the Federación Panamericana de Lechería (FEPALE) and by the IDF National Committee of Cyprus.

Everything is ready for the 1<sup>st</sup> IDF Symposium [The Role of Dairy in Sustainable Diets](#), 1-2 February 2018 in Seville, Spain. See more on our [interesting programme](#) and **register today!**

Find more about the [IDF/ISO Analytical Week](#), 23-27 April, Dublin, the [6<sup>th</sup> IDF Paratuberculosis Forum](#), 4 June in Rivera Maya, Mexico, and the [IDF Symposium on Microstructure of Dairy Products](#), 3-6 June, in Montreal, Canada.

And last but not least, we invite you to have a look at our flagship publication the [World Dairy Situation Report 2017](#).

## **IDF AT THE CODEX COMMITTEE ON NUTRITION (CCNFSDU)**

IDF represented the global dairy sector at the 39<sup>th</sup> Session of the Codex Committee on Nutrition and Foods for Special Dietary Uses (CCNFSDU) in December 2017. Topics of interest to the dairy sector included:

### ***Review of the Codex standard for follow-up formula***

CCNFSDU agreed to the proposal from Canada and the US proposal to ask the Joint FAO/WHO Expert Meetings on Nutrition (JEMNU) for advice on the appropriate science-based nitrogen-to-protein conversion factors for soy and milk proteins in infant formula and follow-up formula. IDF will monitor this work and engage when necessary.

### ***Essential composition of food products for young children***

The Committee agreed with a minimum level for fat of 3.5 g / 100kcal and for a maximum level for available carbohydrates of 12.5 g /100 kcal with the addition of a new footnote to indicate that for a product with a protein level below 3 g/100 kcal, a maximum level of available carbohydrate up to 14 g /100 kcal may be permitted. The Committee agreed to retain the amended footnote 4 on lactose being the preferred carbohydrate.

### ***Protein quality***

The Committee clarified the provision of the protein recommendations in the footnote pertaining to protein efficiency ratio (PER) methodology. The footnote will read: "When determined by PER methodology, the quality of protein shall not be less than 85% of that of casein.". IDF will prepare a position on the related report and actively advocate it with Codex member states.

### ***Methods of analysis for provisions in the Standard for infant formula and formulas for special medical purposes intended for infants (CXS 72-1981)***

The Committee agreed to submit the methods for Biotin, Vitamin D, and Chloride to CCMAS for typing, endorsement and inclusion in the Recommended Methods of Analysis and Sampling (CXS 234-1999). IDF will monitor the progress through CCMAS and CAC and comment when needed.

### ***Harmonized guidelines for use of probiotics in foods and dietary supplements***

The Committee agreed that Argentina would prepare a discussion paper for consideration at its next session. IDF will follow-up with Argentina and the International Probiotics Association (IPA).

## **IDF AT FEPALE MEETING IN CUBA**

At the 2017 General Assembly of its members in Cuba, the Federación Panamericana de Lechería (FEPALE) endorsed the Dairy Declaration of Rotterdam. FEPALE President Daniel Pelegrina and Secretary General Ariel Londinsky signed on behalf of the Pan-American Dairy Federation, while Director General Nico van Belzen signed on behalf of IDF.



*Western Cattle Egrets foraging between cattle in Cuba demonstrate that humans are not the only species which benefits from dairying.*

In addition to presentations about the Declaration and about the FEPALE member countries, the programme featured site visits organized by CENSA (Centro Nacional de Sanidad Agropecuaria; National Center of Agricultural Health) to Cuba's largest dairy factory and to two farms. Cattle breeds raised in Cuba include red Holstein, Taíno de Cuba, Criollo and mestizo breeds of these. Farms often also raise pigs, poultry and rabbits and produce their own fodder and other crops.

## **CYPRUS SIGNS THE DAIRY DECLARATION**

Cyprus endorsed the Dairy Declaration at the 1st Pancyprian Scientific Conference of the IDF National Committee, hosted by the Ministry of Agriculture and rural development. Signatories included the Minister of Agriculture Mr Nicos Kouyialis, President of the IDF National Committee and Director of the Department of Agriculture Dr Androula Georgiou, and Dr. Nico van Belzen on behalf of IDF.

After the signatures, the scientific symposium commenced. It included sessions on increasing milk production by genetic improvement and rational feeding, as well as on economic and social impacts of dairy on the rural economy. This first event organized by the IDF National Committee of Cyprus was attended by around 300 stakeholders and the participation in the debates was very enthusiastic.



*(from left to right): Dr. Nico van Belzen, IDF Director General; Mr Nicos Kouyialis, Minister of Agriculture of Cyprus; Dr Androula Georgiou, President of the IDF National Committee of Cyprus.*

## **IDF AT THE CARBON SEQUESTRATION SEMINAR**

Arla Foods invited dairy expert colleagues, researchers, authorities and expert organizations to a one-day seminar on carbon sequestration. The long-term ambition is to promote carbon sequestration in farming practices as a measure to mitigate climate change. The goal of the day was to get an agreement on how to capture all existing activities and continue the work on carbon sequestration to include it in current guidelines on carbon- and environmental footprint for the dairy and beef sectors.

The morning session consisted of research perspectives to provide a better understanding of the potential of carbon sequestration, what actions support carbon stocks enhancement and how these actions can be quantified and incorporated into carbon assessments. The session highlighted some key challenges that are still to be addressed such as the most suitable time perspective to adopt in the analysis and also the potential differences with national reporting to the IPCC before consensus can be achieved. The morning session was concluded with a summary of the challenges to merge science and business perspectives. The afternoon session started with dairy and beef company perspectives, followed by initiatives of international organizations including FAO, IDF and the EU PEF project.

Seminar participants expressed an appreciation of the challenges involved in reaching a common approach and a willingness to share expertise and contribute to a collaborative approach. They agreed that although further scientific effort is still necessary, now is the opportune time to bring the academic and industrial communities together to benefit from a greater understanding of each other's knowledge and requirements.

## **UPCOMING IDF EVENTS**

### **The Role of Dairy in Sustainable Diets Seville, Spain, 1<sup>st</sup> and 2<sup>nd</sup> February 2018**

The interconnection between Dairy Nutrition and Sustainability will be discussed in the five sessions.

If you want to know more about the programme and speakers see the event press releases [here](#).

The Role of Dairy in Sustainable Diets: creating new approaches

The Role of Dairy in Sustainable Diets: more about some presentations

The Role of Dairy in Sustainable Diets: highlighting the essential role of dairy

The Role of Dairy in Sustainable Diets: mitigating the environmental impact and public perceptions of dairy

The Role of Dairy in Sustainable Diets: demonstrating the key role of dairy in a nutritious diet

The Role of Dairy in Sustainable Diets: reducing the impact & adapting to climate change

The Role of Dairy in Sustainable Diets: sustainable production of milk





## Programme

### 1<sup>st</sup> February 2018

#### WELCOME (11:00-11:15)

- ◆ Judith Bryans (IDF President) Welcome and introduction to the event
- ◆ Luis Calabozo Morán (FENIL) – Welcome to Spain

#### SESSION 1: SUSTAINABLE DIETS (11:15-13:00)

Chair: Judith Bryans (IDF President)

- ◆ Nicole Darmon (FR) – Dairy Products: How do they fit in nutritionally adequate and sustainable diets?
- ◆ Brad Ridoutt (AU) – A critical review of dietary strategies to reduce environmental impact
- ◆ Olivier Jolliet (Univ of Michigan, US) – A US dairy consumption case study

#### LUNCH AND NETWORKING (13:00-14:30)

#### SESSION 2: PUBLIC PERCEPTIONS OF DAIRY (14:30-16:00)

Chair: Jan Steijns (IDF SPCC member)

- ◆ Laurent Damiens (CNIEL, FR) – Public perceptions of dairy in different countries
- ◆ Wim Verbeke (Ghent University, BE) – How to address consumer preferences and public concerns on nutrition and sustainability
- ◆ Philippe LeGrand (INRA, FR) – Changing perceptions of saturated fats
- ◆ Emily Meredith (NMPPF, US) – Changing perceptions about animal health and welfare

#### SESSION 3: DAIRY AS PART OF A NUTRITIOUS DIET (16:30-18:00)

Chair: Jean Marc Delort (IDF SPCC Chair)

- ◆ Ian Givens (University of Reading, UK) – Milk and dairy foods and risk of cardiometabolic diseases
- ◆ Silvia Valtuena Martinez (EFSA) – Health claims on dairy products
- ◆ Gregorio Varela Moreiras (Univ CEU San Pablo) – Dairy's role in the health of the Spanish population

#### GALA DINNER (EVENING)

### 2<sup>nd</sup> February 2018

#### SESSION 4: ENVIRONMENTAL AND SOCIOECONOMIC IMPACT OF DAIRY (9:30-12:00)

Chair: "Chair tbc"

- ◆ Piercristiano Brazzale (Brazzale, IT) The environmental impact of food production
- ◆ Eric Grande (Lactalis, FR) – Sustainability metrics used in dairy companies
- ◆ Torsten Hemme (IFCN) – Dairy farmer sustainability based on socioeconomic indicators
- ◆ Dacia Whitsett-Morrow (US) – Benefits of dairy nutrition in global development

#### LUNCH AND NETWORKING (12:00-13:30)

#### SESSION 5: MITIGATION OF ENVIRONMENTAL IMPACT AND ADAPTATION TO CLIMATE CHANGE (13:30-16:00)

Chair: Piercristiano Brazzale (IT)

- ◆ Judith Bryans (IDF President) – The Dairy Sustainability Framework
- ◆ Anne Mottet (FAO) Mitigating greenhouse gas impact of the dairy sector
- ◆ Jørgen Eivind Olesen (Aarhus University, DK) – How the dairy sector can adapt to climate change
- ◆ Mary Beth Hall (USDA) - Exploring a world without livestock

#### CLOSURE (16:00)

- ◆ Judith Bryans (IDF President)

#### Registration and accomodation

<https://www.fil-idf.org/idfevent2018/>

## IDF/ISO Analytical Week

Dublin, Ireland 23-27 April, 2018

The Analytical Week provides an excellent opportunity for networking with international scientific peers, global instrument and supply companies.

The Analytical Week consists on joint business meetings for development of ISO/IDF international standards and protocols. Up to 40 IDF/ISO Action Teams and six Standing Committees will meet over the course of four days.

An exhibition of the leading global suppliers of laboratory equipment to the dairy industry complements the meetings of analytical experts. The exhibition will feature high throughput analytical instrumentation, advanced laboratory instruments, rapid chemical and microbiological assays, and consumable suppliers.

*Symposium on Wednesday 25 April: [Harmonisation of analytical methodologies in relation to global dairy trade](#).* It will feature a strategic perspective for international standardization, application of technologies, such as metabolomics and DNA sequencing, and other modern methods to dairy products. There will also be an update on current EU activities related to food authenticity.

*Technical tour:* Regulatory laboratories of the Irish Department of Agriculture, Food and the Marine.

Attendance to IDF and ISO meetings (Action teams and Standing Committees) is reserved to IDF or ISO members. No-members are invited to get in contact with their National committees (link) or ISO Member bodies in order to attend as announced observers. The Symposium and Technical tour are open to all.

*Final programme:* <http://www.idfisodublin2018.com/>



### **6th IDF ParaTB Forum at the 14th International Colloquium on Paratuberculosis Riviera Maya, Mexico, 4 June 2018**

The Colloquium organizing committee has once again invited the International Dairy Federation (IDF) to organize the 6th ParaTB Forum. This meeting will be held on Monday June 4th from 14:00 – 18:00 at the conference venue.

As with previous Forums, this 6<sup>th</sup> ParaTB will be a by-invitation-only event to provide for as much open discussion as possible about the strategies, experiences and lessons learned from National Paratuberculosis (Johne's disease) Programs in a small group. During the Forum, each country representative will be invited to deliver a short update about their national program/activities to control Paratuberculosis, and any unique challenges and successes that they have had since the last ParaTB Forum in Nantes.

The proceedings from the meeting will be published as an IDF Bulletin. If you are working on the topic and you wish to attend please contact the IDF Head Office ([msanchezmainer@fil-idf.org](mailto:msanchezmainer@fil-idf.org)).

### **3rd FIL-IDF/Elsevier Symposium on Microstructure of Dairy Products Montreal, Canada, 3<sup>rd</sup> to 6<sup>th</sup> June 2018**

The conference will highlight the latest research efforts in food structuring and de-structuring. The conference will bring together experts in food engineering, food science, food technology and nutrition.

This is a significant opportunity for you to join leaders from industry and academia to ensure you keep abreast of recent developments in this fast-developing field and for you to network with your international colleagues.



Conference topics:

Session 1: Linking structure and functionality in foods using novel experimental and modelling approaches

Session 2: The role of structuring and de-structuring in food product design and functionality

Session 3: Food structure design across the lifespan

Session 4: Food structure design for healthcare and medical applications

Session 5: Constructing dairy matrices for oral and gut functionality

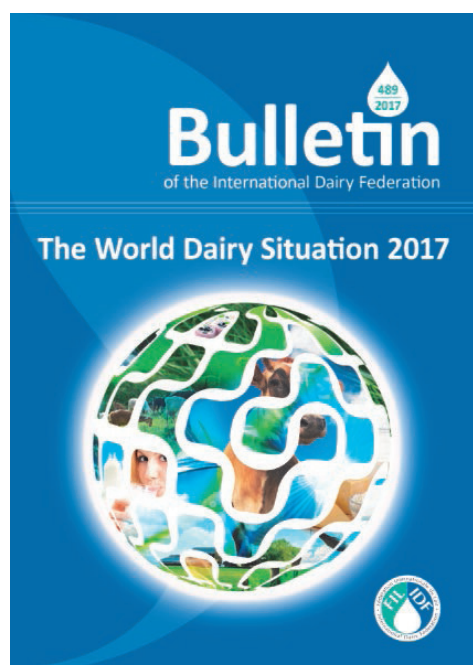
Session 6: Deconstructing dairy matrices for release of nutrient and flavor components

[Register by 16 March 2018 to claim your discounted rate](#)

## IDF PUBLICATIONS

### IDF World Dairy Situation Report 2017

The 2017 edition includes a spreadsheet with all data as well as a ready-to-use slide set for presentations. For a global and country-by-country analysis of the latest developments in dairy, you can order your copy of the Report [here](#).



World: dairy product prices



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