



# ICAR Annual Conference & IDF/ISO Analytical Week 2025

**Sustainable Livestock Farming through Harmonization, Technology and Innovation**

NDDB Anand, Gujarat, India | 29 March - 4 April, 2025

## INDICATIVE PROGRAMME

Time	ICAR	IDF/ISO
<b>Saturday 29 March 2025   Venue: New Board Room</b>		
08:00 – 10:00	Registration	
10:30 – 11:00	Health break	
11:00 – 13:00	ICAR Board	
13:00 – 14:30	Lunch	
14:30 – 16:00	ICAR Board	
16:00 – 16:30	Health break	
16:30 – 18:00	ICAR Board	
<b>Sunday 30 March 2025   Venue: New Board Room</b>		
08:00 – 10:00	Registration	
08:30 – 10:30	ICAR Board/staff meeting	
10:30 – 11:00	Health break	
11:00 – 13:00	ICAR Board/staff meeting	
13:00 – 14:30	Lunch	
14:30 – 16:00	ICAR Board & Chairs Committees	
16:00 – 16:30	Health break	
16:30 – 18:00	ICAR Board & Chairs Committees	
<b>Monday 31 March 2025</b>		
08:00 – 10:00	Registration	
08:30 – 10:30		Methods Standards Steering Group (MSSG - by invitation) - Training Room 4
10:30 – 11:00	Health break	
11:00 – 13:00		Methods Standards Steering Group (MSSG - by invitation) - Training Room 4
13:00 – 14:30	Lunch	
14:30 – 16:00	Milk Analysis subcommittee (MASC) - Training Room 4	Action Team(s) - New Board Room
16:00 – 16:30	Health break	
16:30 – 18:00	ICAR/IDF ExtraMir - Training Room 4	DCMR WGs - Training Room 7 Action Team(s) - New Board Room
19:00 – 23:00	Dinner by Chairman NDDB	
<b>Tuesday 1 April 2025</b>		
08:00 – 10:00	Registration	
08:30 – 09:30	ICAR General Assembly - T K Patel Auditorium	
09:30 – 10:30	Inaugural Session ICAR/IDF/ISO - T K Patel Auditorium	
10:30 – 10:35	ICAR Introduction - Daniel Lefebvre - T K Patel Auditorium	
10:35 – 11:00	Health break	

Time	ICAR	IDF/ISO	
11:00 – 12:00	ICAR Plenary session - T K Patel Auditorium ICAR services - Martin Burke Interbull Services - Toine Roizen		
12:00 – 13:00	IDF/ISO plenary session - T K Patel Auditorium		
13:00 – 14:30	Lunch		
14:30 – 16:00 Dr. Vergheese Kurien Auditorium	<b>Technical Session 1</b> - ICAR traits: how ICAR members develop tools to support farmers to increase the sustainability of their dairy herd. Session chair: Daniel Lefebvre	Standing Committee on Laboratory Statistics and Quality Assurance (SCLSQA)1 - Training Room 1	
	Leveraging Mid-Infrared Milk Spectroscopy to Increase the Sustainability of Dairy Farms		F. DEHARENG
	NEU.rind – A User-Friendly Digital Tool Applied for Sustainability Assessments of Austrian Dairy Farms		Christa Egger-Danner
	ICAR questionnaire- Driving animal genetic progress within a cattle populations		Daria Iakovishina
	Using Test Day Data and Neural Network Regression to rank cows based on their future Lifetime Milk Yield Revenue		Daniel Lefebvre
AgNav – a climate action planning tool for farmers and their advisors	Mike Lynch	Standing Committee on Analytical Methods for Additives and Contaminants (SCAMAC) 1 - Training Room 3	
16:00 – 16:30	Health break		
16:30 – 18:00 Dr. Vergheese Kurien Auditorium	<b>Technical Session 2</b> - From data collection to genetic improvement in smallholder dairy systems. Session chair: Matthew Shaffer and Toine Roozen	SCLSQA - Training Room 1	
	Introduction to session		Tonie Roozen
	Data collection for genetic evaluation from smallholders		Dr. Sachin Joshi
	Translating genetic evaluation into genetic improvement for smallholder dairy cattle and buffalo in India		Nilesh Nayee
	How genomics transformed intensive dairy genetic improvement		John Cole
	Selection for heat tolerance		Matthew Shaffer
	Step-wise Data-Driven Innovation to Support Sustainable Dairy Transformation in Developing Countries		Helene Soyeurt
Panel Discussion	All speaker	SCAMAC - Training Room 3	
16:30 – 18:00 Training Room 6	<b>Technical Session 3</b> - Advancing climate-smart livestock technology to enhance animal health and resilience, farmer prosperity, and food. Session chair: Miel Hostens		
	ICAR IDF Initiative on sensor data for functional traits: genetics and reference standard for rumination		Christa Egger-Danner
	Advancing climate-smart livestock nutrition to enhance animal health and resilience, farmer prosperity, and food security across the Indian subcontinent		Miel Hostens
	Enhancing Farm Resistance to TB		Mike Lynch
08:30 – 18:00	Exhibition and Poster session		
19:00	WELCOME RECEPTION and CULTURAL EVENT		
Wednesday 2 April 2025   Venue: T K Patel Auditorium			
08:00 – 10:00	Registration		
08:30 – 08:45	Presentation of the Indian dairy sector – Shri Jignesh Shah (DGM-SAP) National Dairy Development Board (NDDDB), India - 15 min		
08:45 – 09:00	Brief introductions of ICAR/IDF/ISO and importance of collaboration – Philippe Trossat, France – 15 min		
09:00 – 09:15	ICAR and IDF/ISO efforts on validation of milk analysers on farm (ICAR) and in laboratory (ISO 8196 IDF 128) – Silvia Orlandini, Italy - 15 min		
09:15 – 09:45	Joint ICAR and IDF projects: overview and future actions for a. Reference System for Somatic Cell Count – AT leader: Pierre Broutin, France – 15 min b. ExtraMir – AT leader: Helen Soyeurt, Belgium – 15 min		

Time	ICAR	IDF/ISO
09:45 – 11:05	Standardization in India a. Overview of NDDDB Analytical Laboratory –NDDDB CALF LTD - 20 min b. Challenges and solutions for sampling and analysis of milk and milk products for regulatory purpose: – QA Advisor- Food Safety and Standards Authority of India (FSSAI) – 20 min c. National Standards of test methods for milk and milk products given emerging global market requirements – Head-FAD & Scientist-E - Bureau of Indian Standards (BIS)– 20 min d. Challenges and opportunity in export of food consignment: Regulatory Requirements and analytical method- Assistant Director - Export Inspection Council (EIC): 20 min	
11:05 – 11:35	Health break	
11:35 – 12:55	Panel discussion on challenges and opportunity in analytical methods used for dairy and other food testing (panelists from ICAR, IDF, ISO, BIS, FSSAI, EIC, NDDDB experts). Moderator: Ms Silvia Orlandini	
12:55 – 13:00	Presentation of next IDF/ISO Analytical Week 2026, China – Ms Guo Ling	
13:00 – 14:30	Lunch	
14:30 – 16:00	<b>Technical Session 4</b> - How the milk analyses can support the livestock and dairy production. Session chair: Josee Bordeleau	
	Differences in cow milk mid-infrared spectra collected during morning and evening milking and their implications	Maria Frizzarin
	Possibilities of rapid MIR analysis of milk to provide information on cow's welfare	Clement Grelet
	Prediction of mastitis via mid infrared analysis of milk: Validation through experimental approach	Octave Christophe
	The Dairy-Farm Management Monitor; monthly bulk milk diagnostics for increased lactations and early disease-warning	Dr. Wim Schielen
16:00 – 16:30	Health break	
16:30 – 18:00	<b>Manufacturer's showcase</b>	
	Latest cutting-edge analytical and automation solutions to extract the maximum value of every milk sample and streamline Central Milk Testing laboratories operation-Pierre Broutin	Bentley Instruments
	Choosing the best method for the job: NIR or MIR (FTIR)?- Dr. Per Waaben Hansen	IndiFoss Analytical pvt. Ltd.
	A Healthier Future for Livestock: Quick Diagnostics, Smarter Treatments-Mr. Divyesh Butala	Prompt Instruments
	Enhancing Milk Quality & Finished Products with Cutting-Edge Technology- Dr. Bharatkumar Davda	Tara International
	Increase of Milk and Lactation Numbers By Using FMM (Farm Milk Monitor)- Dr. Wim Schielen	Everest Instruments Private Limited and ELDC, Netherland
18:30 – 18:00	Exhibition and Poster session	
19:00	FREE EVENING	

Time	ICAR	IDF/ISO		
<b>Thursday 3 April 2025</b>				
08:00 – 10:00	Registration			
08:30 – 10:30 Dr. Verghese Kurien Auditorium	<b>Technical Session 5 - Recording and phenotyping strategies with focus on functional traits. Session chair: John Cole &amp; Ms. Varsha Joshi</b>	Standing Committee on Analytical Methods for Composition (SCAMC)1 - Training Room 3	Standing Committee on Methods for Dairy Microbiology (SCMDM)1 - Training Room 1	
	National Digital Livestock Mission – initiative by Government of India			Ms. Varsha Joshi
	Employing collar-based algorithm to predict dry-matter intake for evaluating and improving feed efficiency in dairy-cows			Roni Yair
	Community based breeding programs – opportunity for smallholder goat genetic improvement and increased incomes			Nimbkar C
	The last data point – experience with Dtreo data capture for impact in smallholder ruminant systems			Anouk Schurink
	US genetic evaluation for new calf health traits: diarrhea and respiratory illnesses			Mahesh Neupane or John Cole
	Animal recording and decision support system, the LoCaBreed 2.0-Dtreo integration			Dominique Ouédraogo
	Simple phenotypic indexes can bring data recording to life for smallholder farmers			Peter Amer
	Genome wide association study of type traits associated with production traits in Kankrej cattle			A.B. Chaudhari
Recording and Phenotyping Strategies with a Focus on Functional Traits	Gil Katz			
10:30 – 11:00	Health break			
11:00 – 13:00 Dr. Verghese Kurien Auditorium	<b>Technical Session 6 - Breeding for lower methane emission: advances in recording, phenotypic and genetic analysis, and implementation in breeding programmes. Session chair: Maria Frizzarin</b>	SCAMC - Training Room 3	SCMDM - Training Room 1	
	ICAR-BWYPEX 2025: introduction to the topics			Maria Frizzarin
	breed4green – Establishing a comprehensive dataset on methane emissions, proxies and other traits in commercial farms			Christa Egger-Danner
13:00 – 14:30	Lunch			
14:30 – 16:00	<b>Manufacturer's showcase - Dr. Verghese Kurien Auditorium</b>	SCAMC - Training Room 3	SCMDM - Training Room 1	
	Identification benefits for traceability systems- Claire Richaud			MSD Animal Health
	Caisley Geno TC - a new option for ear tissue sampling- Dr. Ferdinand Schmitt			Caisley International GmbH
	Thermo Fisher comprehensive solutions supporting agrigenomics applications -Dr. Arjun Kandalam			Thermofisher
	Innovative Management of Animal Genetic Resources using Axiom Multispecies array-Dr. Harish Rotti			Inventa
	Animal Reproduction Biotechnology solutions – IMV Technologies-Dr. Sanjeev Sharma			IMV Technologies
	Revolutionizing Dairy Breeding: Introduction of Sexed Semen in India-Dr. Swapnil Deshmukh			Genus Breeding India Pvt Ltd (ABS India)
Innovative analytical solutions for milk quality analysis - for everyone-Dr. Daniel Schwarz	IndiFoss Analytical pvt. Ltd.			
16:00 – 16:30	Health break			
16:30 – 18:00	ICAR 2025 wrap up meeting - Dr. Verghese Kurien Auditorium	SCAMC - Training Room 3	SCMDM - Training Room 1	
08:30 – 18:00	Exhibition and Poster session			
19:00	Gala Dinner – Hotel Madhubhan			



Time	ICAR	IDF/ISO
Friday 4 April 2025		
08:30 – 10:30	MSSG wrap up- TBC (by invitation) - Dr. Verghese Kurien Auditorium	
All day technical tours		

1. Also serves as a meeting of ISO/TC 34/SC 5 – Milk and milk products

Note: Blue text - ICAR/IDF/ISO meeting for members or allowed observers only

Exhibition and posters are in separate area

Posters Session			
1 April 2025   8:30 - 18:00			
Session			
4	1	Lactation Stage Modulates Milk Citrate and Fatty Acid Synthesis via Acetate Chain Elongation (ACE) in Dairy Cows	Yi-Hsuan Chen
4	2	Milk Recording as a Tool Dairy Farming Development in the Republic of Srpska	Aleksandar Maric
4	3	Impact of reducing milking-point coverage of on-farm milk analysers on distribution of tests per cow	Robert Orchard
4	4	Effect of different preservatives on total bacteria count in raw milk for laboratory proficiency test	Jen-Wen Shiau
4	5	Dairy Sangrah: A Digital Solution for Precision Livestock Farming	Dr. Hanish Sharma
4	6	Common Mastitis Pathogens and Prevalence in Dairy Farms in Taiwan	Jen-Wen Shiau
4	7	Traceability of Results: Development of a Secondary Certified Reference Material for Somatic Cell Counting for Milk Quality Control	GABRIELA ALEJANDRA COSTAMAGNA
4	8	Choosing the best method for the job: NIR or MIR (FTIR)?	Per Waaben Hansen
2 April 2025   8:30 - 18:00			
4	9	Utility of an in-line somatic cell count sensor for selecting cows for dry-cow therapy	Robert Orchard
4	10	Probiotic viability determination in mixed-species yoghurt incorporating Lactocaseibacillus rhamnosus and Bifidobacterium spp. during storage	Buyts EM
1	11	Whole Genome Mapping for Identification of Genes associated with Production Traits Under Heat Stress Conditions in Mehsana Buffalo	Sujit Saha
1	12	Weigh Day – an android application for Dhi Test Day Data Collection	William VerBoort
1	13	A Reporting System for Small-Scale Farms: Leveraging Open Data for Grigio Alpina Cattle in Italy	Riccardo Negrini
1	14	Hackathon on Artificial Intelligence on Livestock Open Data	Riccardo Negrini
1	15	Estimation of changing genetic parameters for large multi-trait genomic data under high intensity of genomic selection	G.R.Gowane
1	16	Prevalence of Common Infectious Causes of Neonatal Diarrhea in Buffalo Calves and their Dams in Organized Dairy Farm in Hisar, India	Saminuel Mairinga
3 April 2025   8:30 - 18:00			
5	17	Levering explainable artificial intelligence for efficient data-driven decisions to improve welfare in livestock species	Pablo Augusto de Souza Fonseca
5	18	Understanding milking temperament – A farmer preferred trait of dairy animals under Indian smallholder production system	Shantanu Shinde
5	19	Adoption of Panting Score as a Heat Stress Assessment Tool in Indian Smallholder Dairy System	Akshay Joshi
3	20	3D Imaging for Automatic Body Condition Score Measurement in Dairy Cows	J. F. Huang
3	21	Insights into Lactation Performance for Automatic Milking Systems of Holstein Dairy Cows in Taiwan	J. F. Huang
3	22	Enhancing Animal Resilience: A Collaborative Approach within the European Partnership on Animal Health and Welfare	Alessandra Crisà
3	23	Machine Learning model to evaluate thermal stress impact on reproductive performance in Italian dairy cattle	Riccardo Negrini
6	24	Seasonal, Parity, and Lactation Stage Effects on Daily Methane Emissions in Dairy Cattle in Taiwan	Jen-Wen Shiau