



CLUB *OF* BOLOGNA

*strategies for the development of agricultural  
mechanisation*



# 32<sup>nd</sup> Members' Meeting of the Club of Bologna

*"Agricultural Mechanization: Urgency for Food Security"*

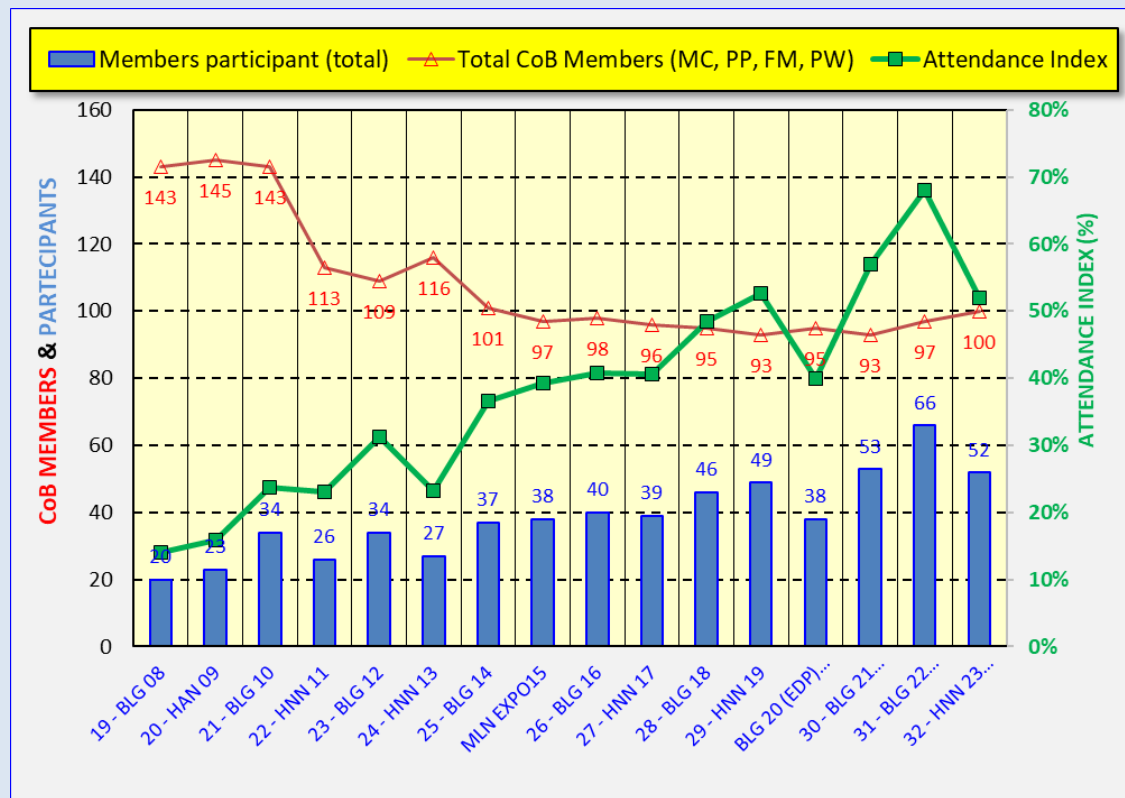
12-13 November, 2023  
Agritechnica – Hannover

OPENING

# Welcome

This 32<sup>nd</sup> CoB FM meeting will be followed by around 50 Participants:  
*All in presence due to the impossibility to have also the online meeting*

This corresponds to the **Attendance Index** (AI = Participant CoB Members / CoB Members) similar to that achieved in the CoB Hannover meeting in 2019



# CoB NEW FM MEMBERS Nominated in 2022 : WELCOME!!

**1. Alida Bellandi:** Guarany Industry (*Brasil*)



**2. Timo Oksanen:** Technischen Univ. München (*Germany*)



**3. Folarin Alonge:** Univ. of Uyo (*Nigeria*)



**4. MPagalile Joseph Jeremia:** Food and Agriculture Organization of the United Nations (*FAO*)



# Unfortunately we also have lost somebody:

## Prof. Bill STOUT



*Bill had over 50 years of experience in Agricultural Engineering and has been deeply involved in prestigious international applications and projects. He has been also awarded many prizes and awards all over the world. **In 1989 he was called by Prof. Pellizzi to constitute the "Club of Bologna"** to which he always gave a significant contribution, with suggestions and ideas always innovative and forward-looking.*

*With him the area of Agricultural Engineering and the **"Club of Bologna"** loses a great protagonist, a man with exceptional experience and knowledge, attentive to countless technical aspects, but also to social and ethical issues.*

*We will never forget his friendliness and willingness to all Colleagues.*

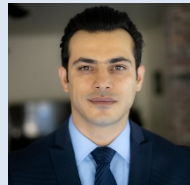
# 32<sup>nd</sup> Members' Meeting Rapporteurs

As for the 31<sup>st</sup> meeting, each Session will be managed by the Chairman and a **Rapporteur**

**Rapporteurs** are Pellizzi Prize Winners and are asked to:

- Help the Chairman in improving the **Session discussion**
- Collect and examine the filled Session Key-Sentences (*now the template must be download form the CoB website and than send it to CoB SG Marco Fiala*)
- Write a brief report (2-3 pages), considering also the **Key-Sentences** written by the participants, **to be than disseminated through the CoB website**

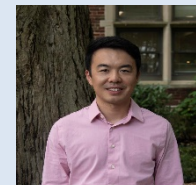
**Session 1 : Alireza Pourreza**



**Session 2 : Dana Choi**



**Session 3 : Hao Gan**



# Agenda of the 32<sup>nd</sup> Members' Meeting

**Sunday, November 12 – Convention Centre, Room 15/16 (morning)**

h 9.45÷10.15	<p><b>WELCOME ADDRESSES AND OPENING SESSION</b></p> <p>President of FEDERUNACOMA and Lothar Hövelmann (DLG Managing Director/Competence Center Agriculture) Opening statement by <i>Paolo Balsari</i> President of the “Club of Bologna”</p>
<p><b>SESSION 1 –</b>  <b>AGRICULTURAL USED AREA (AUA) DECREASE, WORLD POPULATION INCREASE, CLIMATE CHANGE: ROLE OF MECHANIZATION</b>  <b>CHAIRMAN: Danilo Monarca (Club of Bologna Management Committee) – RAPPORTEUR: Alireza Pourreza</b></p>	
h 10.15÷10.35	<p><b>1.1 – AUA and world population increase: present and future situation</b>  <i>Riccardo Valentini (University La Tuscia - Italy)</i></p>
h 10.35÷10.55	<p><b>1.2 – Climate change and agriculture: from challenges to solutions</b>  <i>Monia Santini (Centro Mediterraneo Cambiamenti Climatici – CMCC Foundation)</i></p>
h 10.55÷11.10	<b>Coffee break (Foyer Room 15/16)</b>
h 11.10÷11.30	<p><b>1.3 – Food-waste, food-loss and new bio-economy models to solve the problem</b>  <i>Gianluca Brunori (University of Pisa - Italy)</i></p>
11.30÷11.50	<p><b>1.4 – Agricultural mechanization, one of the solutions making it possible to reconcile the scarcity of agricultural land, a decline in the number of farmers and an increase in the world population in a context of climate change</b>  <i>Emmanuel Hugo (INRAe – France)</i></p>
h 11.50÷12.30	<b>Session 1 Discussion and Key-Sentences drawing up</b>
h 12.30÷13.30	<b>Lunch (Foyer Kaskaden)</b>

# Agenda of the 32<sup>nd</sup> Members' Meeting

**Sunday, November 12 – Convention Centre Room 15/16 (afternoon)**

## **SESSION 2 – PREDICTIVE AND LONG DISTANCE MAINTENANCE**

**CHAIRMAN:** Axel Munack (*Club of Bologna Management Committee*) – **RAPPORTEUR:** Dana Choi

h 13.30÷13.50	<b>2.1 – Soil tillage: predictive maintenance in the Agritech world</b> <i>Andrea Ruffin (Maschio-Gaspardo - Italy)</i>
h 13.50÷14.10	<b>2.2 – Combined physical and AI-based predictive maintenance for components</b> <i>Walter Lehle (Robert Bosch - Germany)</i>
h 14.10÷14.30	<b>2.3 – The human factor in a data-driven service process: Support vs. supervision for CLAAS tractors</b> <i>Axel Holtkotte (Claas GmbH– Germany)</i>
h 14.30÷14.45	<b>Coffee break</b> ( <i>Foyer Room 15/16</i> )
h 14.45÷15.25	<b>Session 2</b> Discussion and Key-Sentences drawing up
h 15.25÷18.00	<b>FREE VISIT TO AGRITECHNICA 2023</b>
h 18.30	Transfer by train: from AGRITECHNICA to the Maritim Airport Hotel

# Agenda of the 32<sup>nd</sup> Members' Meeting

Monday, November 13 – Convention Centre Room 15/16 (morning )


h 8.15	Transfer by train from hotel to AGRITECHNICA (meeting point: hotel hall)
<b>SESSION 3 - SPECIFIC MECHANIZATION: MACHINES FOR SUGAR BEET AND POTATO</b> <b>CHAIRMAN:</b> Peter Schulze Lammers (University Bonn – Germany) – <b>RAPPORTEUR:</b> Hao Gan	
h 9.45÷10.05	<b>3.1 – Global sugar beet cultivation, sugar market, sugar companies</b> Heinrich-Hubertus Helmke (Dachverband Norddeutscher Zuckerrübenanbauer e. V. DNZ - Germany)
h 10.05÷10.25	<b>3.2 – European market, mechanization and postharvest processing of potatoes</b> Rolf Peters (Potato Research Station Munster - Germany)
h 10.25÷10.40	Coffee break (Foyer Room 15/16)
h 10.40÷11.00	<b>3.3 - Harvest quality, soil conservation and costs in the potato harvesting - where is the journey heading? Potato harvest trends</b> Rupert Geischeder (ROPA Sittelsdorf – Germany)
h 11.00÷11.20	<b>3.4 - Technology and mechanization of sugar beet harvest</b> Michael Gallmeier (HOLMER Schierling/Eggmühl, group EXEL – France)
h 11.20÷11.50	Session 3: Discussion and Key-Sentences drawing up
h 11.50÷12.30	<b>STUDY GROUPS (SG) ACTIVITIES</b> - Reports by the SG Coordinators <b>SG1 Sustainable Agricultural Mechanization in Africa</b> - Global Conference on Sustainable Agricultural Mechanization - Brief Review - J. DeBaerdemaeker; J. Kienzle <b>SG2 – Dissemination</b> – D. Monarca <b>SG3 Ethics of the future agricultural mechanization development.</b> Focus on the new EU AI Act (AIA) - P. Pickel Short Communication: India's vision on Agri Technology – TR Kesavan <b>CLOSING SESSION</b> - Programme of CoB activities for the 2024
h 12.30-13.30	Lunch (Foyer Room 100 - downstairs)
h 13.30	FREE VISIT TO AGRITECHNICA 2023

# Raccomandations

*Please fill the Sessions Key-Sentence and the suggestions for subject to discuss in near future CoB Members' meetings that are both downloadable from the CoB website*

*CLUB OF BOLOGNA*

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***Future-Subject-Proposals*** (please, hand-to Secretary-General)

Club-Member/Participant-name: \_\_\_\_\_

***PLEASE, SUGGEST-US-PROPOSALS-FOR-SUBJECT-TO-DISCUSS-IN-NEAR-FUTURE-MEMBERS'-MEETINGS***

***Proposal-Subject-A*** (please, write using capital-letters)

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***Proposal-Subject-B*** (please, write using capital-letters)

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I WISH ALL OF YOU A FRUITFUL 32<sup>nd</sup> CoB MEETING !!!