



## Report – Dairy Cattle Milk Recording Working Group

<b>Date of report</b>	05/08/2016	
<b>SC/WG/TF/ name</b>	<b>Dairy Cattle Milk Recording Working Group</b>	
<b>Chair</b>	Pavel Bucek (Czech Republic), bucek@cmsch.cz	
<b>Members (names)</b>	<p>Kai Kuwan (Germany)          Karl Zottl (Austria)  <b>Xavier Bourrigan (France)</b>          Pavel Bucek (Czech Republic)          Yaniv Lavon (Israel)          Filippo Miglior (Canada)          Juho Kyntäjä (Finland)          Kevin Haase (USA)          Carlos Trejo (Chile)          Japie van der Westhuizen (South Africa)</p> <p><b>Friedrich Reinhard (Germany)</b> will replace Astrid Koeck. Ms. Koeck was appointed in summer 2016 but due to a change in circumstances at ZuchtData had to pull out of the working group, which is why she was replaced by Friedrich Reinhard. Friedrich will be responsible for 24-hour and accumulated milk yield calculations, BVE and resolving complex scientific problems that may arise within the working group.</p>	
<b>Departing members since June 2015</b>	In July 2016 <b>Hélène Leclerc (France)</b> was replaced by <b>Xavier Bourrigan (France)</b> .	
<b>Meeting(s) since June 2015</b>	<p><u>Last:</u>  <b>Face-to-face meetings of the whole working group:</b>          09/06/2015 Krakow          16/11 and 17/11 2015 Rome  <b>Ad-hoc group meetings (limited attendance):</b>          22/10 and 23/10 2015 Vienna          21/01/2016 Verden (VIT)          23/04 and 24/04/2016 Helsinki          18/07/2016 Prague  <b>Videoconferences of the whole working group:</b>          24/09/2015, 02/02/2016,          13/04/2016, 28/06/2016  <b>Ad-hoc group and individual videoconferences between the chairman and individual members:</b> 16/09/2015,          30/10/2015, 29/01/2016,          05/02/2016, 10/02/2016,</p>	<p><u>Next:</u>  <b>Meeting in Vienna</b> in September 2016 (Pavel Bucek and Karl Zottl).  <b>Whole working group videoconference</b> on preparation of the meeting in Chile  <b>Videoconference with members unavailable for Chile</b>  <b>Chile: whole working group meeting</b> scheduled for 25<sup>th</sup> October 2016  <b>The DCMR WG is responsible for two sessions in Chile:</b>          1. Friday 28<sup>th</sup> October 2016, chaired by Pavel Bucek &amp; Neil Petreny, T.S.6 - Milk recording: a tool to improve dairy production.          2. Milk recording in developing countries. Chair: Juho Kyntäjä, Tuesday 25<sup>th</sup> October 2016.</p>

	<p>18/02/2016, 23/02/2016, 03/04/2016, 11/04/2016, 12/04/2016, 21/04/2016, 29/04/2016, 02/05/2016, 09/05/2016, 13/05/2016, 01/06/2016, 23/06/2016, 30/06/2016, meeting PB and YL,</p> <p><b>Videoconferences re: dispute with Steve Eicker:</b> 03/09/2015, 15/10/2015, 04/02/2016, 17/02/2016, 22/02/2016, 23/02/2016, 29/02/2016, 20/04/2016, discussion involving Pavel Bucek, Karl Zottl and Bianca Lind</p> <p><b>Videoconferences connected with the preparation of the Chile Congress:</b> 29/04/2016, 12/07/2016, 29/07/2016</p> <p><b>Videoconference establishing the Sensors Task Force:</b> 08/07/2016,</p> <p><b>Other videoconferences after the meeting in Poland, discussion re: projects and future orientation</b> involving the chairman and KK, KZ, HL, YL, FM and JK.</p> <p><b>At the end of 2015 discussion and videoconferences</b> involving Pavel Bucek and Hélène Leclerc, Karl Zottl and Juho Kyntäjä.</p>	<p><b>Other meetings after Chile will be planned and scheduled during the WG meeting in Chile.</b></p>
<p><b>Participation at meetings</b></p>	<p><b>Full +:</b> WG meetings consist of different types of meetings: whole WG or chairman and individual members and/or small groups of members. Average attendance is high.</p>	<p><b>Absence</b> All members are active and involved in WG projects/activities. Scheduling of WG activities is designed to be flexible for all members.</p>
<p><b>Priorities addressed since June 2015 (last report)</b></p>	<p><b>Only key projects and priorities are covered. The WG takes on different types of projects:</b></p> <ul style="list-style-type: none"> <li>• <i>Whole WG members</i></li> <li>• <i>Part of the WG</i></li> <li>• <i>Individual projects and/or tasks</i></li> </ul>	

1. Guidelines, processing major revisions of section 2.1. Feedback from external experts (the WG would like to thank them for that). Guidelines will be promoted during T.S.6 (paper T.S. 6).
2. Completion of the survey project: World trends in milk recording: preparation of paper for the Journal of Dairy Science and translation into languages other than English (Russian, Finnish, Polish, Hebrew, and Czech). Preparation of brochure covering all project indicators.
3. Survey 1: Management of Milk Recording Organisations – Current Problems and Future Challenges, 41 organisations worldwide, 51-question questionnaire (results to be presented during T.S. 6).
4. Survey 2: Practical and Methodological Aspects of Milk Recording and Management in South America (South American Project) based on an 86-question questionnaire. Countries: Brazil, Chile, Colombia, Uruguay, Argentina (presentation on Tuesday, MR in developing countries)
5. Data pipeline for novel traits in the genomic era: From farms to DHI to evaluation centres
6. On-farm recording of novel traits – genetic parameters and recommendations (presentation in TS 4).
7. Data processing and milk recording, calculation for AMS (presentation in TS 6).
8. Factors for standardising lactation yield in relation to mature equivalents and 305-day bases in Chile (presentation on Tuesday).
9. Quality Management Systems for Dairy Farming - Opportunities & Challenges for Recording Organisations. New services for MRO. New section for the ICAR Guidelines (presentation TS 6).
- Projects on practical experiences of changes to MROs, redesigning management, evaluation of processes (projects in point 10)**
10. Study from France and experiences from Finland (presentations in TS 6).
11. Statistical analysis of data from in-line equipment (AfiLab project). Paper during the T.S. 2.
12. Practical use of Milk Recording Information (presentation on Tuesday MR in developing countries).
- Working group is planning to have a project focuses on connection between milk yield production and health traits and will try to develop possible new indicators. Projects number 13, 14 and 15 supported this project**
13. Health-recording systems: improving breeder-recorded processes (presentation T.S.4)
14. Synchronised and timed insemination procedures improve fertility of subclinical mastitic dairy cows (electronic posters T.S. 6)

	<p>15. Scientific research: Two methods of improving fertility of subclinical mastitic dairy cows, Y. Lavon, M. Kaim, G. Leitner, D. Biran, E. Ezra, D. Wolfenson, Journal of Dairy Science, Vol. 99, Issue 3, p2268–2275</p> <p>16. Session during the ICAR meeting in Chile, Friday 28<sup>th</sup> 08:30 – 10:30, chaired by Pavel Bucek &amp; Neil Petreny, T.S.6.</p> <p>17. Session during ICAR meeting in Chile, Milk recording in developing countries. Chair: Juho Kyntäjä, Tuesday 25<sup>th</sup> October 2016.</p> <p>18. Accuracy Task Force chaired by Brian Wickham. WG represented by Karl Zottl, Filippo Miglior.</p> <p>19. Dispute with Steve Eicker. Whole WG involved initially and later an ad-hoc group (Pavel Bucek, Bianca Lind and Karl Zottl). Compromise found. The WG would like to thank Bianca Lind for her support.</p> <p>20. Discussion on approval policy re: new methods for 24-hour calculation and accumulated milk yield, monitoring new calculation methods</p> <p>21. Advising and resolving specific problems among ICAR member organisations. Some members provide training in foreign countries (e.g. Juho Kyntäjä).</p> <p>22. Involvement in ICAR CoQ, most members are active auditors.</p> <p>23. New Terms of Reference for the working group and future priorities, discussion with Brian Wickham.</p> <p>24. Some Lessons Learned Analyzing Nucleic Acids In Milk.</p> <p>25. Practical aspects of cattle milk recording in the US. Discussion on specific aspects of milk recording in the US – part of a section monitoring situations in different parts of the world.</p> <p><b>The WG collaborates with more than 50 milk-recording organisations worldwide. 14 oral presentations and 1 electronic poster planned for the ICAR meeting in Chile. All papers approved.</b></p>
<p><b>Priorities for next year</b></p>	<p><b>Priorities to be updated at the WG meeting in Chile.</b></p> <ol style="list-style-type: none"> <li>1. Development of ICAR Guidelines.</li> <li>2. Project plausibility checks.</li> <li>3. Project connection between health and milk yield production and possible new services for MROs.</li> <li>4. Project outputs and outcomes from milk recording.</li> <li>5. Organise a session on cattle milk-recording in Scotland.</li> <li>6. Organise a workshop on ICAR Guidelines in Scotland.</li> <li>7. 24-hour calculation and accumulated milk yield.</li> <li>8. Quality management and assurance.</li> <li>9. Sensors Task Forces, Karl Zottl and Friedrich Reinhard.</li> <li>10. New technologies, screening and possible additions to the ICAR Guidelines.</li> <li>11. Discussion on French sensors project, in-line analysis for</li> </ol>

	<p>AMS (sensors), data transfer, direct collaboration with manufacturers which produce AMS.</p> <p>12. Daily milk yield recording data from Israel.</p> <p>13. Discussion about new research on calculation in AMS in Canada, recalculation of Liu, 2000 in Germany, research in France on daily milk recording and adaptation of Liu 2000 in France. Discussion on sampling research in France.</p> <p>14. Discussion on plans for a round table on practical aspects of calculations and processes 24-hour and/or calculation of accumulated milk yield.</p> <p>15. Monitor development among ICAR members and non-members.</p> <p>16. Other tasks and projects to arise before Scotland.</p>
<p><b>Issues which the Group wishes the ICAR Board to consider</b></p>	<p>1. Arrange a session on cattle milk-recording in Scotland organised and chaired by the Dairy Cattle Milk Recording WG. We propose extending the session from 2 hours to 3 hours. The reason for this is due to our increased output, interest of authors in session 6 in Chile on milk recording in cattle. 20 authors submitted papers, so some had to be moved to other sessions or changed to electronic abstracts. We want to involve invited speakers and submitted papers from the audience. The DCMR WG is able to cover all of the above.</p> <p>2. Organise a workshop on practical aspects of milk recording and application of ICAR rules at the ICAR meeting in Scotland (organised and chaired by the Dairy Cattle Milk Recording WG). This will include not only milk recording but also milk laboratories and milk meters. Key aspects: keep best practice in milk recording and maintain interest of new members. This project is supported by Charl Hunlun: ICAR head of auditors.</p> <p>3. Prepare a completely new part of ICAR Guidelines. It will focus on quality management outside milk recording and branding agricultural products. Production conditions on farms will be reviewed in terms of whole processes from the stable to the shelf to the supermarket. Similar programmes already exist in some EU countries (e. g. Germany, Austria, Czech Republic, etc.). It is a way of extending MRO services. Charl Hunlun who is responsible for ICAR audits supports the initiative. Some DCMR WG members have prepared a presentation on it for T.S.6.</p> <p>4. The Dairy Cattle Milk Recording WG has developed a new system of nomenclature for sampling in milk recording in cattle. Our proposal is to add this system for goats and sheep to the ICAR Guidelines. A French member of ICAR is interested in doing the same for goats in France.</p>