



Minutes of Meeting

Board of Directors meeting by teleconference, 3rd August 2017, 14:00-16:00

Participants

Board of directors

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| 1. Howard Winbow | James M Brown Ltd. | Chairman of the ICdA Board of Directors |
| 2. Sinha Parikhit | FIRST SOLAR | |
| 3. Ann Vos | IZA (Nyrstar) | |
| 4. Paul Kolisnyk | IZA (Teck) | Vice-Chairman |
| 5. Günther Halle | IZA (Glencore) | |
| 6. Thierry Vanmol | Flaurea Chemicals | |
| 7. Patrick de Metz | SAFT S.A. | Vice-Chairman |
| 8. Colin Thirlaway | Stanley Black & Decker | |

Staff

Mik Gilles	Director ICdA
Noömi Lombaert	ICdA
Christian Canoo	Cadmium Reach Consortium

Apologies

Eric Nottez	SNAM
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With 8 out of 11 directors attending, the 50% quorum was met for voting.

Welcome (Howard)

Agenda (Howard)

1. Statement of compliance
2. Actions regarding setting of new OEL for cadmium
 - Status of the DG Employment/EU Commission Tender for impact assessment Cd under CMD
 - Information exchange with consultant RPA that was appointed for the above consultancy
 - ICdA interest to initiate a literature review by prof Bernard on adverse effects of cadmium and scientifically sound derived dose-response relationships (1st draft proposal from UCL attached, with in green text some modifications I proposed)
3. Proposal for amendments to the articles of Association of ICdA 5.1 and 5.3 (amendment attached)
4. Proposal of a plant performance report on biomonitoring (draft example of report attached)
5. Statistical survey regarding Cd market for better transparency
6. Resignation of Jean-Luc Lafitte, Flaurea Chemicals, as director at the Board of ICdA
7. A.o.b.: no additional agenda items proposed by the attendants.

1. Statement of compliance (Mik, ICdA)

All attendants accepted to comply with the statement of compliance.

2. Actions regarding setting of new OEL for cadmium (Mik, ICdA)

2.1. Status of the DG Employment/EU Commission Tender for impact assessment Cd under CMD (Appendix 1)

The tender was assigned to RPA. The project timing is given in the table below. The reference date is July 14th. (confirmed by RPA).

Actions/Deliverables	Timetable
Entry into force of the contract	Signature of the contract
Kick off meeting	Reference date + 2 weeks
Inception report containing the information as outlined in section 3.1 of this document	Reference date + 1 month
Inception meeting	Reference date + 1 month and 2 weeks
Interim report containing the information as outlined in section 3.1 of this document	Reference date + 4 months
Interim meeting	Reference date + 4 months and 2 weeks
Draft final report containing the information as outlined in section 3.1 of this document	Reference date + 5 months and 2 weeks
Meeting on the draft final report	Reference date + 6 months
Final report containing all information required according to the contract	Reference date + 6 months and 3 weeks

2.2. Information exchange with consultant RPA that was appointed for the above consultancy

It is important that we contact RPA before the inception report is due (14 August). The Board asked Mik Gilles not to wait any longer and to contact RPA the next day (August 4) to inform RPA about the useful information ICdA can deliver with respect to the tender. Mik Gilles agreed to contact RPA asap to arrange a conference call with Patrick de Metz and RPA within the next days. The following info should be communicated:

1. The different industrial segments/applications for cadmium in Europe. It is important that we set clear boundaries on the size of the industry for which the OEL on Cd and Cd compounds under CMD would apply. We should stress that the restricted use of cadmium resulted in only a few very specific industrial Cd activities remaining in Europe, and absence of occupational exposure of relevance in some other sectors which might have reported cadmium emissions to the environment (steel industry, municipal waste collection & treatment plant, ...)
2. Distinguish between the number of people working in the cadmium industry from the people that are actually occupationally exposed to cadmium.
3. The ICdA guidance document.

4. The Industry initiative to reduce occupational exposure documented by the observatories OCdBio on bio-monitoring of Cd in Urine and blood, and OCdAir on workplace Cd in air monitoring. An interim report is due by mid-November and a draft final report is due by the end of the year. This means that the timing set for reporting the next bio-monitoring (October 8th) will be ok for entering the latest information in the Impact study.
5. Distinction between Cd and Cd compounds under CMD and non-classified Cd compounds like Cd pigments and tellurides.
6. Of high importance is to deliver information on compliance cost with future OELs. Experience shared by the Beryllium Association showed that cost for Industry (CAPEX&OPEX) was largely underestimated because of lack of input from industry. Obviously, our members and cadmium industry in general do not have examined and calculated the cost to comply with the very low OEL values proposed by the SCOEL and confirmed by working group of parties. Patrick de Metz insisted that everyone should do this exercise. Patrick suggested to make the calculation for 3 OEL levels:
 1. 4.0 µg Cd/m³ respirable fraction The REACH dossier DNEL
 2. 1.6 µg Cd/m³ respirable fraction: a value which brings the cancer risk at 4/1000
 3. 1.0 µg Cd/m³ inhalable fraction: the value from the 2017 SCOEL opinion

SAFT has already taken first steps and estimated it would take 2-3 weeks for a consultant to make an investment report. So, there is a non-negligible cost involved in this exercise but likely at least a magnitude less than what can be expected in additional investment cost to comply with a much lower OEL. To cope with these study costs, it was suggested that we would come up with at least one good estimate per segment that can be extrapolated to other members in that segment, and share the study costs. The following segments were suggested:

- Segment 1: zinc smelters and cadmium refiners: 11 plants
- Segment 2: specialty chemical compound manufacturers: 4 plants
- Segment 3: industrial battery manufacturers: 7 plants
- Segment 4: pigment manufacturers: 2 plants
- Segment 5: recyclers of cadmium containing waste: 7 plants
- Segment 6: specialty aerospace connectors and fasteners: 7 plants
- Segment 7: surface treatment contractors for aerospace & military applications: to be identified!
- Segment 8: others: 4 plants (PV, IR, contact materials...)

2.3. ICdA interest to initiate a literature review by Prof. Bernard on adverse effects of cadmium and scientifically sound derived dose-response relationships

Prof. Bernard accepted to make a literature review of occupation exposure related to kidney effect, linking Cd in workplace air with urinary cadmium values. The study will be done by Prof. Van Maele (presented the breast cancer paper at our conference last year) and supervised/guided by Prof. Bernard. He would also propose dose response relationships for workplace air quality and adverse kidney effects. Within the short time frame (report should be delivered by 15 October)



Prof. Bernard cannot include other health effects (cancer, bones, ...). He would make references to a highly scientific, peer reviewed multi-year IUPAC assessment study on cadmium which is about to be finalized for publication. As co-author, he has access to the draft report. The cost for this study will be €18.000 with 60% payable at the start of the study. ICdA has sufficient resources to finance this study which fits in the annual budget foreseen for scientific work. The typing error in the payment scheme will be corrected. (APPENDIX 2)

3. Proposal for amendments to the articles of Association of ICdA 5.1 and 5.3

An amendment is proposed to stress the engagement of ICdA members towards improvement of occupational exposure, implementation of the ICdA guidance and participation in the reporting of monitoring data. The second version of the amendment was accepted as being the most appropriate. The Board unanimously accepted the amendment. The amendment will be submitted to the next General Assembly for approval. (APPENDIX 3)

Patrick de Metz asked about the engagement letter from the companies. A letter was drafted but not added to the agenda and documents sent to the Board ahead of the meeting. Mik Gilles will circulate this letter (APPENDIX 4). All Board members are invited to comment. The intention would be that this engagement letter would be signed by the top management and at least someone who has the power to decide on the allocation of required budgets to comply with the engagements listed in this letter. The letter will be submitted to the next GA for approval.

4. Proposal of a plant performance report on biomonitoring

The board could not agree on a lay-out (APPENDIX 5). There was agreement that the report should not be complex to read. A good performance report should bring the message in an eye blink. The board concluded that everyone should reflect on this and make suggestions to Mik Gilles. The purpose would be that we can further develop the report and have an acceptable version ready by the next Board and GA in November.

5. Statistical survey regarding Cd market for better transparency

There was no new information to report by Paul or Mik. Mik Gilles will contact Sue Eales, Managing Director of the World Bureau of Metal Statistics to reactivate the discussion we had in Lisbon.

6. Change of directors at the Board

Jean-Luc Lafitte, director at the Board for Group C, has resigned from Flaura Chemicals. Flaura Chemicals has proposed Mr. Thierry Vanmol from Flaura Chemicals to replace Jean-Luc ad interim until the next Board meeting.



7. Date of next Meeting

The participants preferred a meeting in London at the time of the IZA Board & GA. After checking with the IZA secretary, we can inform you that these meeting will take place on November 2nd. Mik will check availability of the usual meeting room at Hamilton Place and send out a first invitation.

The meeting was closed at 16:00

Respectfully submitted

approved

Mik Gilles

Howard Winbow

Director ICdA

Chairman at the ICdA Board of Directors