**Meeting Minutes**

**Group:** APSCC, Liquid Application Equip Tech Group (LAETG)

**Date:** Wednesday, August 23, 2017

**Location:** Four Points Sheridan, Schiller Park IL

**Presiding:** Todd Howatt ........................................... AGCO Chair

Chris Bursiek ........................................... John Deere Vice Chair

**Attendees**

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
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<tbody>
<tr>
<td>Todd Howatt</td>
<td>AGCO</td>
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<tr>
<td>Chris Bursiek</td>
<td>John Deere</td>
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<tr>
<td>Steve Pearson</td>
<td>TeeJet Technologies</td>
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<tr>
<td>Tim Wodrich</td>
<td>John Deere</td>
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<tr>
<td>Chris Schneider</td>
<td>John Deere</td>
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<tr>
<td>Karl Klotzbach</td>
<td>CNH Industrial</td>
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<tr>
<td>Chris Schoeny</td>
<td>CNH Industrial</td>
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<tr>
<td>Adam Barlow</td>
<td>John Deere</td>
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<tr>
<td>Scott Cedarquist</td>
<td>ASABE</td>
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<tr>
<td>Dan Moss</td>
<td>AEM</td>
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<tr>
<td>Mike Pankonin</td>
<td>AEM</td>
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<td>John Wagner</td>
<td>AEM</td>
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1. **Call to Order:** 9:46 am by Todd Howatt

2. **Adoption of Agenda:**
   
   *Adopted As written*  
   Howatt

3. **Previous Meeting Minutes Review:**
   
   *Approved as submitted*  
   Howatt

4. **Membership/Roster Review:**
   
   *See roster sheets passed around the room*  
   Howatt

4.1 **Additions/Changes Roster Membership:**

   All

5. **Current Business**

5.1 **AEM Sprayer Leadership Group Update**

   Draft AEM one pager on sprayer research.docx  
   Sennet

5.2 **DRT Update/Interaction with EPA**

   FW AEM meeting with EPA OPP.msg  
   Bursiek
<table>
<thead>
<tr>
<th>5.3</th>
<th>UNL Agitation Research Project</th>
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<tbody>
<tr>
<td></td>
<td><strong>Action Item</strong>: John Wagner to circulate With request for comments/questions By Noon Friday September 8&lt;sup&gt;th&lt;/sup&gt;</td>
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<tr>
<td></td>
<td>Submit questions about agitation you want answers to John Wagner by Noon on Sept 8&lt;sup&gt;th&lt;/sup&gt;. I will pass the consolidated list to Travis Funseth (JD)</td>
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<table>
<thead>
<tr>
<th>5.4</th>
<th>ISO TC23/SC6 Activity / Plenary update</th>
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<tbody>
<tr>
<td></td>
<td>2017 Sept 11-15 Bologna Italy</td>
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<td>2018 week 26 Toronto</td>
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<thead>
<tr>
<th>5.4.1</th>
<th>ISO/CD 4254-6 – Safety</th>
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<tr>
<td></td>
<td><strong>Action Item</strong>: Need to have a joint US Canada AEM / AMC meeting to discuss these issues TBD Prior to Plenary this fall.</td>
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<td></td>
<td>Get Doodle out today (August 29) Whole LAETG group Ask Karl who with in AMC to add for Industry Discussion</td>
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<thead>
<tr>
<th>5.4.1</th>
<th>ISO/DIS 5681 – Vocabulary</th>
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<tr>
<th>5.4.2</th>
<th>ISO 5682 Series – Test Methods</th>
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<th>5.4.3</th>
<th>ISO/CD 10265 – Sprayer nozzles – Color coding (Happening)</th>
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<tr>
<th>5.4.4</th>
<th>ISO/AWI 21191 – Closed Chemical Transfer Systems</th>
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<td><strong>Challenge – Challenge Liquid proposed to soak components to prove compatibility, which has not been identified at this time.</strong></td>
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<td><strong>Current Ballot to take this to a DIS</strong></td>
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<tr>
<th>5.4.5</th>
<th>ISO/DIS 25358 – Droplet-size spectra from atomizers</th>
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<tr>
<th>5.4.6</th>
<th>ISO 11356 – Spray Parameter recording</th>
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<tr>
<td></td>
<td>Coordinating with other groups for other recording/reporting needs.</td>
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<td></td>
<td>Opportunity to coordinate with Ag Gateway</td>
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<td>Tech spec in Limbo at this time</td>
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<td></td>
<td>Need to begin to think what does the Standard look like</td>
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<td></td>
<td>Netherlands leading with their requirements</td>
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<td></td>
<td>Cross Brand Compatibility of recorded data is a goal</td>
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Bursiek/Barlow

Howatt
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<thead>
<tr>
<th>5.4.7</th>
<th>ISO 4254-6</th>
<th>Bursik</th>
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<tbody>
<tr>
<td></td>
<td>Working group 22 will convene</td>
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<td></td>
<td>64 pages of comments</td>
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<td></td>
<td>4 meter boom fold is outstanding issue</td>
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<td>Proposal for Joint US Canada call prior to plenary</td>
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<td><strong>Action Item</strong></td>
<td>– John W to work with Karl K to set up The Teleconference The week of August 27</td>
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<td></td>
<td>- Address Boom Fold and Cab Filtration</td>
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<td></td>
<td>UK Farm show Serials has demo area for manufacturers. Pull in, Unfold, Spray, fold up, and pull out. Observed by regulating group, closely watching how the units folded.</td>
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<tr>
<th>5.4.8</th>
<th>Unmanned Ariel Vehicle Spraying (South Korea?)</th>
<th>Howatt</th>
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<tr>
<td></td>
<td>South Korea and UK working on a draft. Closely related to aerial applicators, very large in Eastern countries</td>
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<td></td>
<td>ANSI Working to bring together all interested parties to address standardization issues Meeting this Sept 21 in DC Kick off of Coordinated effort to create standard on UAE for US. They will bring in ISO and others (Scott C to provide additional Information)</td>
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<th>5.5</th>
<th>Brazil Certification Conversations</th>
<th>Bursiek</th>
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<tr>
<td></td>
<td>Looking to collect and consolidate standards for benefit of Brazilian inspectors</td>
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<td>Talking now</td>
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<tr>
<th>5.6</th>
<th>ANSI/ASABE X613-4 Cab Environment Group</th>
<th>Bursiek</th>
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<tr>
<td></td>
<td>Published in all four parts</td>
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<td></td>
<td>Interest at the ISO level</td>
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<td>Valda R (Potential Ally in Europe) European Research University Bologna</td>
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<tr>
<th>5.7</th>
<th>Adaptive Sprayer Modeling</th>
<th>Howatt</th>
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<tr>
<td></td>
<td>See earlier items</td>
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<td></td>
<td>Next steps include Webexes, Proposals for testing and moving</td>
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<td><strong>Move to subset of DRT discussion on future agenda</strong></td>
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<tr>
<th>5.8</th>
<th>Nozzle Performance Standard Mtg at EPA Office (Bill Eckel), 29 Sept 2016</th>
<th>Tindall</th>
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<tr>
<td></td>
<td>Follow up to other meetings</td>
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<td></td>
<td>Recommending Droplet size (S572 is an option), not Nozzle model. Challenge for chemical companies</td>
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<td>Remove</td>
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<tr>
<th>6.</th>
<th>New Business</th>
<th>Howatt</th>
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|   | 6.1 | Netherlands desire a black box on Machine to capture information on last 30 minutes of operation  
Goes into effect January 2019  
March 30 We have text (Mike P) Requirement of operators  
Tim Hammers (CEMA) Communication (From Mike P)  
Open to alternatives by Jan 2018  
Information Only |
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<td>6.2</td>
<td>Empty</td>
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|   | 6.3 | **Connect With Crop Life America and Crop Life Canada**  
**ACTION ITEM** (Todd Howatt to contact Imad Saab at Crop Life America), Goal to ensure our priorities and the ideas and direction of crop life are coordinated.  
From: Jay Vroom [mailto:JVroom@croplifeamerica.org]  
Sent: Wednesday, August 2, 2017 11:48 AM  
To: Nick Tindall <ntindall@AEM.org>  
Cc: Imad Saab <isaab@croplifeamerica.org>; Janet Collins <jcollins@croplifeamerica.org>; Mary Jo Tomalewski <mjtomalewski@croplifeamerica.org>  
Subject: RE: Caterpillar Contact  
Nick—YES! Imad and Janet are the right CLA experts to connect with your tech group. They’re copied here. Thanks  
Jay  
Jay Vroom  
President & CEO  
CropLife America  
Direct Dial: 202.872.3850  
Mobile: 202.427.7932  
Executive Assistant: Mary Jo Tomalewski (202.872.3849, mjtomalewski@croplifeamerica.org)  
From: Nick Tindall [mailto:ntindall@AEM.org]  
Sent: Wednesday, August 2, 2017 10:50 AM  
To: Jay Vroom <JVroom@croplifeamerica.org>  
Subject: RE: Caterpillar Contact  
Jay,  
On another note, hoping you can direct me to the right person within CropLife to work with.  
Our Liquid Application Tech Group (sprayers) is looking for someone to establish regular lines of communications between equipment manufactures and crop protection specialists with the aim to ensure we are all on the same page before and after issues arise.  
Thanks  
Nick Tindall, AEM |
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<tr>
<th></th>
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<th>Monthly Action item Reminder</th>
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<tr>
<td></td>
<td></td>
<td><strong>Action Item</strong> (John Wagner) to provide this communication</td>
<td>Howatt</td>
</tr>
<tr>
<td>7.</td>
<td>Prioritization</td>
<td></td>
<td>Howatt</td>
</tr>
<tr>
<td>7.1</td>
<td>Prioritize &amp; Rank agenda issue items to report to CPETC (in the order below):</td>
<td>Howatt</td>
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<tr>
<td></td>
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<td>Updating on Out Reach Croplife etc., Agitation</td>
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<td>ISO Data Generation</td>
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<td></td>
<td></td>
<td>Funding</td>
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<tr>
<td>8.</td>
<td>Requirements for Subsequent Meeting:</td>
<td>All</td>
<td></td>
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<td>Hold with Spring Meeting</td>
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<td>9.</td>
<td>Next Meeting: With APSCC</td>
<td>Howatt</td>
<td></td>
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<td>10.</td>
<td>Adjournment: 12:10</td>
<td>Howatt</td>
<td></td>
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