NSF I/UCRC CR³ Industry Advisory Board Meeting
May 14-15, 2019
Groot Begijnhof Faculty Club, KU Leuven
3000 Leuven, Belgium

Monday, May 13, 2019
12:30 p.m.  Bus leaves from KU Leuven for Umicore Olen Optional Plant Tour
2:00 p.m.   Plant Visit
6:30 p.m.   Bus returns to KU Leuven – Dinner on your own

Monday, May 13, 2019 (EIAB Members Only)
6:45 p.m.   EIAB Meeting (location)
8:00 p.m.   Dinner at Voltaire Restaurant, Jules Vandenbemptlaan 6a, 3001 Leuven, Belgium
            Tel: 32 (0) 16 20 44 43

Tuesday, May 14, 2019 - Hal Lemaire
8:00 a.m.   Registration and Breakfast
            Getting On-Line - Life Forms

8:45 a.m.   Opening Remarks – Lemaire
            B. Blanpain
            Opening Remarks: IAB
            M. Bauer
            CR3 NSF Assessment Coordinator’s Update
            S. Shipp
            CR3 Updates
            B. Mishra

9:15 a.m.   Funded Project Updates – Lemaire
            9:15 a.m.   A: Moisture Analysis of Heterogeneous Solid Material Flows – New (KUL)
                        B. Blanpain
            9:35 a.m.   B: Near Real Time Sub-ppm Detection of Elements in Pure Metals/Alloys –
                        New (WPI)
                        S. Bong, Y. Wang

9:55 a.m.   Coffee Break – Hal Lemaire

10:15 a.m.  Focus Group Sessions for A & B – Two parallel sessions
            A: Moisture Analysis of Heterogeneous Solid Material Flows (Gopher)
            Lemaire
B: Near Real Time Sub-ppm Detection of Elements in Pure Metals/Alloys
(Company)
*Georges Lemaître*

**11:15 a.m. Funded Project Updates – Lemaître**

11:15 a.m. C: Optimized Sorting and Separation Technologies for Remanufacturing with Product Centric Recycled/Reclaimed Scrap – New (WPI)
*B. Mishra, D. Apelian*

11:35 a.m. D: Online Slag and Bullion Analysis by LIBS (KUL)
*E. François, B. Blanpain*

**11:55 p.m. Lunch – Infirmérie**

Company Presentation – TBD

**1:15 p.m. Focus Group Sessions for C & D – Two parallel sessions**

C: Optimized Sorting and Separation Technologies for Remanufacturing with Product Centric Recycled/Reclaimed Scrap (Company)
*Swerius*

D: Online Slag and Bullion Analysis by LIBS (Umicore)
*Georges Lemaître*

**2:15 p.m. Funded Projects Updates – Lemaître**

2:15 p.m. E: Vacuum Distillation of Complex Lead Bullion – Final (CSM)
*E. Tshijik Karumb, P. R. Taylor*

2:35 p.m. F: Copper Separation from Steel (WPI)
*H. Jin, B. Mishra*

2:55 p.m. G: Optimization of Concrete Mixtures for 3D Printing (KUL)
*G. Beersaerts, Y. Pontikes*

**3:10 p.m. Coffee Break – Hal Lemaître**

**3:25 p.m. Focus Group Sessions for F & G – Two parallel sessions**

F: Copper Separation from Steel (SMS)
*Swerius*

G: Optimization of Concrete Mixtures in 3D Printing (Umicore)
*Georges Lemaître*

**4:25 p.m. Funded Projects Update – Lemaître**

4:45p.m. G: Paint Sludge (CSM)
*V. Vaccarezza, C. Anderson*

5:10 p.m. H: Electro-Oxidation of Metals & Inorganics in Metallurgical Operations (KUL)
*P. Subramanian, J. Fransaer*
5:30 p.m. Focus Group Sessions for G, H – Two parallel sessions
   G: Paint Sludge (GM)  
   **Swerius**
   H: Electro-Oxidation of Metals & Inorganics in Metallurgical Operations  
   (Umicore)  
   **Georges Lemaître**

6:45 p.m. Reception and Dinner - **Infirmerie**  
Faculty Club, Groot Begijnhof 14, 3000 Leuven  
Tel. 0032(0)16 32 95 00

**Wednesday, May 15, 2019**

7:30 a.m. Breakfast  
**Hal Lemaire**

8:00 a.m. Review of New Project Proposals - Lemaire  
*M. Bauer – Chair*

10:00 a.m. Coffee Break – **Hal Lemaire**

10:15 IAB Meeting – Closed Session  
*M. Bauer – Chair  
Lemaire*

10:15 a.m. Center Directors Meet with CR3 IAB Guests and Potential Members  
**Swerius**

12:00 Lunch  
**Infirmerie**

1:30 p.m. IAB Debrief with Directors  
**Lemaire**

2:30 p.m. Meeting Adjourns

**Optional Activities**

3:00 p.m. Tour of KUL R&D Facilities Led by KUL Research Students  
Q&A Session with Students

6:00 p.m. Walking Tour to Dinner (Self-Pay)