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Update on the achievements, status and upcoming activities of the Precious Metals Consortium

**Assembly meeting
Brussels, 13th December 2007**



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Agenda

Chaired by *Bob Binney, Johnson Matthey*

1. Introduction and confidentiality clauses.
2. Membership of the Precious Metals Consortium.
3. Election of a Management Committee.
4. Status and progress of the Precious Metals Consortium Work Groups
 1. Technical Advisory Panel.
 2. Silver Work Group.
 3. Gold Work Group.
 4. Platinum Group Metals Group.
5. Rhenium.
6. 2007 Accounts and 2008 Budget.
7. Key tasks, proposed timeline and next Assembly meeting.
8. AOB.
9. Conclusion

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1. Introduction

Robert Binney, Johnson Matthey
Chairman of the Management Committee



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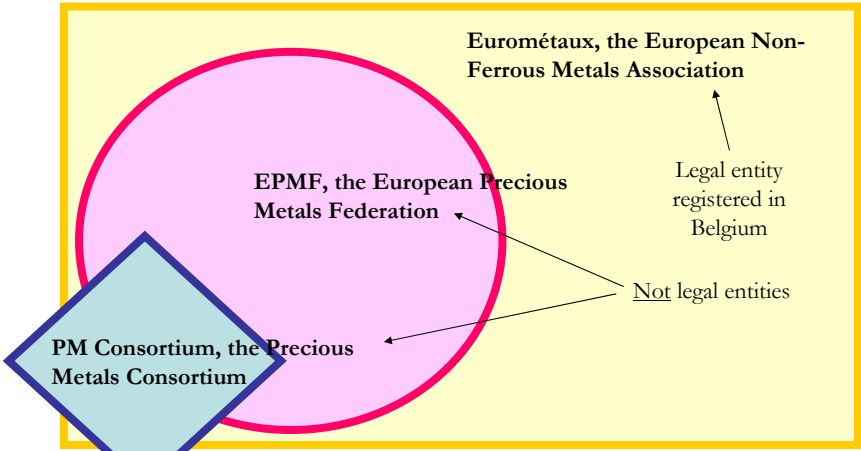
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Eurométaux, the EPMF & the PM Consortium



Remark: The EPMF and the Consortium are separate entities which share part of their membership

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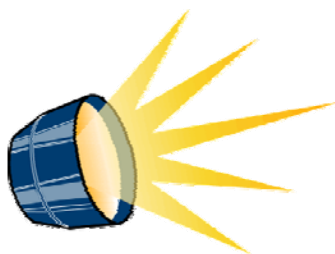
Agreements reached in Krakow



- Only minor clarifications were added to the presented Consortium Agreement.
- Italian and Polish delegations notified Management Committee on legal opinions and suggestions.
- Final version was circulated for signature on the 6th of July 2007.
- Deadline to become a Founding Member was set on 15th of September 2007.
- Potential members were required to complete, sign and return:
 - Appendix 1 of Consortium Agreement
 - Appendix 2 of Consortium Agreement
 - Page 49 of Consortium Agreement
- To date: 25 Members, two candidate Members and plenty of work ahead!
- **Approval of the minutes.**


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Objectives of today's meeting




- To update the Assembly of the Precious Metals Consortium on the progress and status of the technical discussions;
- To agree on a strategy to ensure an active and reliable feed-back from the Members to the Work Groups;
- To agree on a management plan for 2008 (key tasks, budget and timeline).

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2. Membership of the Precious Metals Consortium

Caroline Braibant, EPMF
Secretariat & Trustee



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2.1. Founding Members

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- Ames Goldsmith U.K. Limited
- AMI DODUCO GmbH
- Anglo Platinum Limited
- Argor-Hereaus S.A.
- Boliden AB
- Britannia Refined Metals Limited
- Carl Hafner GmbH + Co. KG
- Cendres & Métaux Holding S.A.
- Commerzbank International S.A.
- Falconbridge Europe S.A.
- Heimerle + Meule GmbH
- Johnson Matthey Plc.
- KGHM Polska Miedz S.A.
- Lonmin Plc.
- Metalor Technologies (France) SAS
- Norddeutsche Affinerie AG
- Norilsk Nickel Finland Oy
- PAMP S.A.
- PX Holding S.A.
- SAFIMET S.p.a.
- SEMPSA Joyería Platería S.A.
- Umicore S.A./N.V.
- Vale Inco Limited
- W.C. Heraeus GmbH
- Wieland Dental + Technik GmbH & Co. KG

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2.2. Candidate Member



Recylex GmbH
(former Metaleurop)

Landstrasse 93

D 3644 Goslar

www.recylex.com

Contact:

Mrs Christiane Wickel

Interest in:

Silver compounds

- Duly signed Consortium Agreement was sent to Secretariat on 13th November;
- Management Committee (MC) agreed to support Recylex' membership to the Consortium at MC teleconference on 22nd November.



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2.3. Reminder: Commitment of the Members



(Article 3.2.2. of the Consortium Agreement)

To become a Member, an applicant shall sign the Agreement and shall therefore commit:

- to **respect** any and all terms and conditions set out in the Consortium Agreement;
- to **complete and submit the relevant declarations** (including but not necessarily limited to the Signature folio and the Substance and tonnage band declaration presented in Appendix 1 and Appendix 2, respectively) associated to the Consortium Agreement;
- to **share free of charge any and all Information and/or Study** [...] which is(are) available in its domain and not generally available or known to be in the public domain, and relevant for the preparation of the Core Data [...]; and
- to **pay** [...] its share of the costs as stated in Article 3.2.3.

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3. Election of a Management Committee

Caroline Braibant, EPMF
Secretariat & Trustee



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3.1. Reminder: Legal provisions

(Article 4.2.1.1. of the Consortium Agreement)

<p><i>Upon decision of the Management Committee in place, the Secretariat shall invite all Members to nominate, on a voluntary basis, one candidate to sit in the Management Committee.</i></p>	<p>Done by e-mail on the 16/10/2007.</p>
<p><i>Nominations shall be sent to the Secretariat within the 21 (twenty-one) calendar days following the invitation of the Secretariat.</i></p>	<p>Deadline was 22/11/2008, 10 nominations were sent by e-mail by that deadline.</p>
<p><i>The list of candidates shall be collected by the Secretariat who shall present it to the Assembly.</i></p>	<p>List of nominees sent by e-mail on 23/10/2007 (+ two additional nominees sent by e-mail on 24/10/2007).</p>
<p><i>A formal election shall take place within the following 21 (twenty-one) calendar days of the closure of nominations.</i></p>	<p>Election will take place today.</p>
<p><i>The Chairman of the Management Committee in place together with the Secretariat and Trustee shall work with the Members in order to ensure the Management Committee assembles a workable and representative number of members to be approved by the Assembly.</i></p>	<p>The current list of nominees assembles a representative and workable Management Committee for the Consortium.</p>

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3.2. List of Nominees

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- Mr Peter Charlesworth (Anglo Platinum)
- Mr Ron Davies (Ames Goldsmith)
- Mr Gaëtan Ganganelli (Metalor)
- Mr Andrew Griffiths (Umicore)
- Dr Gerhard Gutekunst (Wieland)
- Dr Michael Kabs (W.C. Heraeus)
- Dr Jeff Levison (Vale Inco)
- Mr Ludwik Ryng (KGHM)
- Mr Neil Wardle (Britannia Refined Metals)
- Johnson Matthey (tbd)



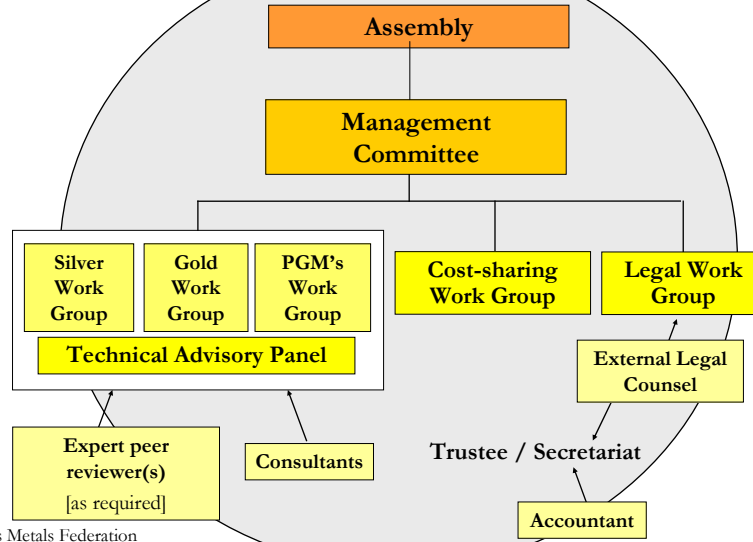
3.3. Proposed Chairperson

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- *The members of the Management Committee shall elect between themselves a Chairperson and a Co-chairperson for a period of 2 (two) years.*
- *The Chairperson shall coordinate the Management Committee, organize its work with the assistance of the Secretariat, and act as the official external Representative of the Consortium [...].*
- *The Co-Chairperson shall replace the Chairperson when unavailable.*
- Proposed Chairperson: **Mr Andrew Griffiths, Umicore.**
- Co Chairperson: will be identified and elected at next MC meeting.

3.4. Reminder: Working Structure

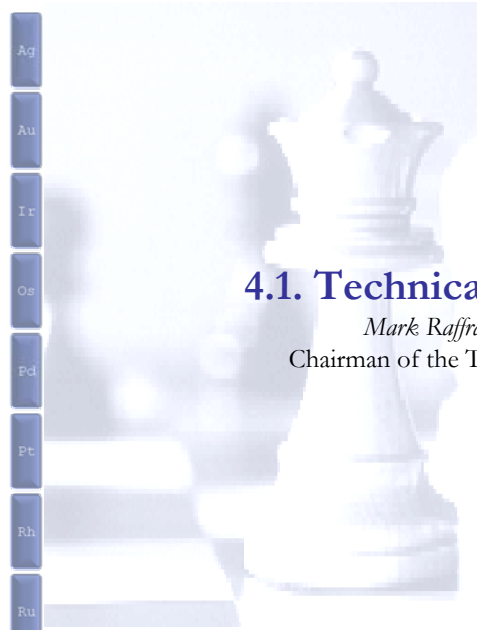
(List of participants available in handouts)



4. Status and progress of the Work Groups

- 4.1. Technical Advisory Panel
- 4.2. Silver Work Group
- 4.3. Gold Work Group
- 4.4. PGM's Work Group

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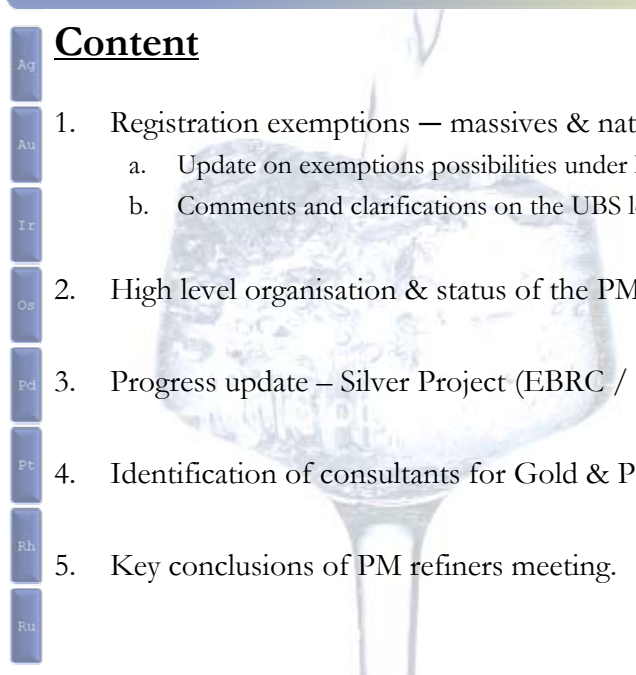
4.1. Technical Advisory Panel

Mark Raffray, Johnson Matthey
Chairman of the Technical Advisory Panel

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Content

1. Registration exemptions — massives & naturally occurring metals:
 - a. Update on exemptions possibilities under REACH Annex IV & V;
 - b. Comments and clarifications on the UBS legal opinion.
2. High level organisation & status of the PMC technical effort.
3. Progress update – Silver Project (EBRC / EURAS).
4. Identification of consultants for Gold & PGM projects.
5. Key conclusions of PM refiners meeting.

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1. Registration exemptions – Annex IV & V

Annex IV and Annex V exempted substances [sufficient information already exists re intrinsic properties, or registration is deemed inappropriate/unnecessary]

- Communication seeking to specifically include PM massive forms in Annex V was developed by TAP.
- However, COM and MS signalled that new inclusions into Annex V were not envisaged.
- Annex IV dossier submission is in theory another possibility.
- But criteria so rigorous and submission deadline so aggressive, actually less burdensome to fulfil registration requirements.
- CEFIC listing of Annex IV dossiers → nearly all submitted are for low hazard organics such as fatty acids and organic salts.

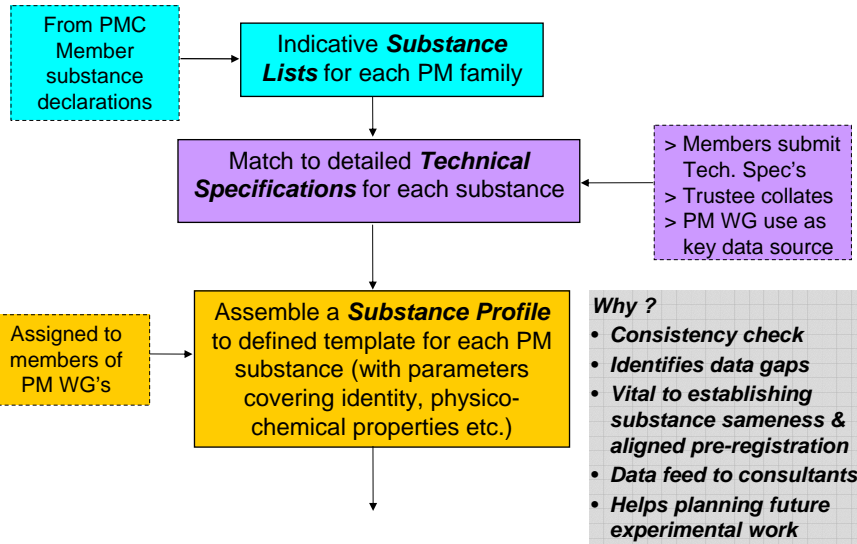


1. Registration exemptions-UBS legal opinion

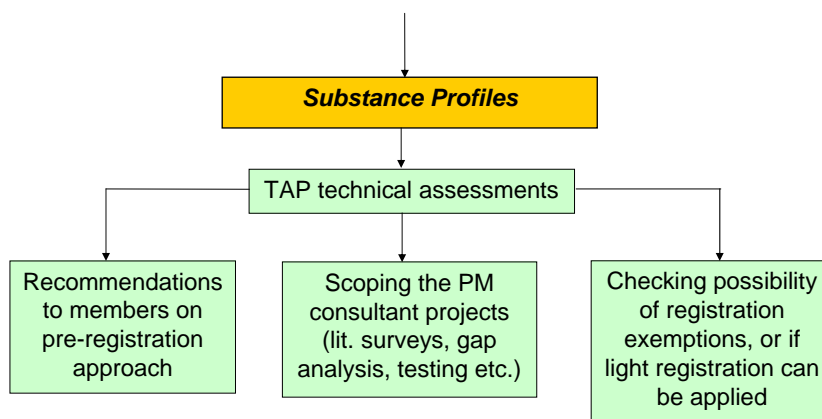
Houston Consulting opinion for UBS: Au and PGM can occur in elemental form in nature equivalent to the end state metal: basis to meet Annex V exemption [Ann V; point 8] ?

1. Key point: chemical modification negates this exemption.
2. Arguably such PM typically chemically modified during extractive processes, e.g. gold cyanidation, prior to reforming PM.
3. Also ECHA opinion: inference that registration of elemental metals is normally envisaged.
4. An attractive idea but seems to conflict with intent of REACH; if correct, potentially applies to other metals, e.g. Cu.
5. PMC member meeting 10 Dec → most consider the legal opinion flawed → proceed with our pre registration plan
6. EM legal advice (McDemott): UBS opinion incorrect (See '2' above)

2. Reminder: Overall scheme for Technical effort (1)



2. Overall scheme for Technical effort (2)



2.2. A key enabler

Cannot stress enough how important speedily building the substance profiles is to the PMC effort!

- Vital step on path to harmonised pre registration (window opens in ~6 mo.);
- Reduces cost, e.g. water solubility test >5000 € per substancemore than 100 PGM substances in our inventory...;
- We waste money if data already exists;
- Provides a basis for ITS, i.e. read across and test waiving;
- TAP now instructing consultants on initial testing – robust data for simple parameters such as PSD and solubility can bear on much more expensive testing, e.g. inhalation and ecotox studies;
- Consultant projects: avoidance of scope creep !

2.1. Substance profiles & “Buddy system”

- One **Profile** for each substance or intermediate (in order to have one master file per material to be registered).
- To increase efficiency and support level, “buddy system” adopted:
 - One company assigned as **Responsible** for preparing the profile;
 - One company assigned as “**Buddy**” for completing/verifying the profile;
 - PM WG reviews and adjusts each resulting Profile before final cross-checking occurs (...TAP, PMC members etc.)
- It has been very hard to get volunteers:
 - Chairs have prepared Profile examples for the Assembly meeting;
 - Trustee has assigned Responsibles/Buddies for other substances;
 - Assigned companies have been asked to accept their assigned substance(s)/intermediate(s) tasking;
 - Target → a buddy system operational by January 2008.

2.3. Progress summary – mixed picture



1. Evolution of **indicative lists of substances** from substance declarations from members
 - V.good progress to date (just needs correlation with '3' below).
2. Submitted **technical specifications**:
 - Some companies have not yet submitted specifications;
 - Data quality ranges from excellent to poor/significant gaps;
 - More in a moment from WG chairpersons;
 - Trustee has prepared a company-specific status sheet.
3. Development of **substance profiles**:
 - Due to slow progress, volunteer system had to be replaced by assignments (Buddy system);
 - Augment member effort with external technical consultant?

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3.1. Progress update – Silver Project



Phase II A	
Purpose	Further <i>literature survey</i> and <i>data/testing gap analysis</i> on extended Ag substance inventory. EBRC/EURAS consider enlarged Ag inventory vs Phase I study (11 substances versus the original 3) requires this extra stage. Key purpose is to add more information to the dataset for Ag ⁺ ion and to assist in read-across for various Ag compounds.
Cost (estimated)	circa 40 000 €.
TAP opinion	TAP see less need to exhaustively study intermediates. Not persuaded about consultant rationale for evaluating Ag ²⁺ . But based on assurance of in-depth literature review for Ag ⁺ and application of Phase IIa project to ITS (read-across and test waiving), TAP recommend work is conducted.
Current status	Authorisation letter to consultants released. Phase IIA start expected Jan 2008.

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3.2. Progress update – Silver Project (2)



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Phase II B													
Purpose	'Enabling tests' on Ag substances relevant to: (a) properties prediction; (b) grouping (read-across); or (c) support of future study design. Parameters: (1) Dustiness; (2) Particle size determination [bulk material]; (3) Bioaccessibility; (4) Water solubility; (5) Relative density; (6) Transformation/dissolution.												
Cost (est.)	100 000 to 145 000 €.												
TAP opinion	<ul style="list-style-type: none"> ■ TAP agree several of these tests are enablers for main experimental program. ■ However, TAP consider adequate data exists for some parameters for key substances. ■ Driver behind testing questionable in the case of intermediates. <p>TAP amended proposal:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">(1) Dustiness</td> <td style="width: 50%;">Perform but with slightly modified scope</td> </tr> <tr> <td>(2) PSD (bulk material)</td> <td>Not required (data exists or members can conduct)</td> </tr> <tr> <td>(3) Bioaccessibility</td> <td>Targeted to main substances/reference substances</td> </tr> <tr> <td>(4) Water solubility</td> <td>With 1 or 2 possible exceptions, not required</td> </tr> <tr> <td>(5) Relative density</td> <td>Not required (data exists or members can conduct)</td> </tr> <tr> <td>(6) Transformation/ Dissolution</td> <td>Perform for all insoluble substances (4 in total)</td> </tr> </table>	(1) Dustiness	Perform but with slightly modified scope	(2) PSD (bulk material)	Not required (data exists or members can conduct)	(3) Bioaccessibility	Targeted to main substances/reference substances	(4) Water solubility	With 1 or 2 possible exceptions, not required	(5) Relative density	Not required (data exists or members can conduct)	(6) Transformation/ Dissolution	Perform for all insoluble substances (4 in total)
(1) Dustiness	Perform but with slightly modified scope												
(2) PSD (bulk material)	Not required (data exists or members can conduct)												
(3) Bioaccessibility	Targeted to main substances/reference substances												
(4) Water solubility	With 1 or 2 possible exceptions, not required												
(5) Relative density	Not required (data exists or members can conduct)												
(6) Transformation/ Dissolution	Perform for all insoluble substances (4 in total)												
Current status	Pending acceptance of TAP recommendation / MC authorisation.												

3.3. Progress update – Silver Project (3)



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Ag project overall timeline

Phase IIa literature search/data gap analysis:	Jan - May 2008
Phase IIa reporting:	May/June 2008
Phase IIb enabling tests:	Jan – Mar 2008
Phase IIb reporting and interpretation:	Apr/May 2008
Agreement of main testing proposals (Ann VII and VIII tests):	circa June 2008
Conduct of main experimental studies:	Jul 2008 – Dec 2009
Compilation of IUCLID file(s):	Jun 2008 – Mar 2010
Compile registration dossiers & provide testing proposals to ECHA:	Apr – Nov 2010

Conclusion: Currently on track for Registration deadline

3.4. Progress update – Silver Project (4)



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- Trustee has sent communications requesting members submit their company owned study data for PM's (PMC Agreement Sect. 5).
- **Important** that all PMC members provide this information for Ag family substances now (if not already actioned).
- Will soon be specifying content of Annex VII / VIII testing program.

4. Consultant selection – Au & PGM Projects



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- TAP currently investigating options for alternative consultants to cover the next PM projects (Au and PGM's).
- Format of consultant work will mirror pattern for silver, i.e.
 - ↳ First a literature survey and gap analysis;
 - ↳ then enabling studies and basic test parameter gap filling;
 - ↳ then mandatory Annex VII, VIII testing;
 - ↳ registration dossier and CSA/CSR preparation;
 - + testing proposals (N.B. few substances >100 ton/yr).
- Pragmatic mindset: REACH registration compliance.
- Application of ITS and test waiving strategies – particularly important to PGM's where there are 100+ substances.

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4. Consultant selection – Au & PGM Projects (2)

- Want a CRO which can competently handle the whole project with at most one split between HH and ENV segments.
- Preferably also with a solid track in metals assessments.
- Preliminary meetings held with:
 - > RCC (CH) Safepharm;
 - > Watts & Crane Associates/BIBRA/REACH Central.
- Approach to be broadened to others:
 - > Including Dr. Knöll Consult GmbH;
 - > Suggestions for other CRO's still welcome !!
- From early indications WCA appear particularly promising:
 - > “One-stop service”;
 - > Pragmatic approach;
 - > Metals experience.



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5. PM refinables meeting 12 Dec

Objective:

First exploratory discussion of whether basis exists amongst refiners for harmonising approach to pre-registration and registration for (non-waste) refinable/recoverable PM substances.

Key Outcomes:

- Have essentials of decision tree re REACH/Waste checkpoints.
- *Ad hoc* WG will meet Feb to consider prototypic refinables streams (sweeps, anode slimes etc.).
- If registration applies, then TII (light registration) path looks a pragmatic standard approach.
- Intent to develop PM refining specific guidance (how to categorise, pre-registration/registration of refinables, complex substance designations etc.).




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4.2. Silver Work Group
Rob Garrett, Ames Goldsmith
 Chairman of the Silver Work Group



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Content

1. Latest silver substance indicative list: substances, intermediates, refinables and “interconsortia materials”.
2. Collection of technical specifications: quality of received information and of Members’ feedback. Main data gaps, potential impact on Silver Project, increase of “Silver-specific costs”.
3. Buddy system and substance profile example(s): Silver and Disilver oxide.
4. Envisaged Silver work programme for 2008 and 2009.

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1. Silver Substance Indicative List

(Available in handouts)

	Name of the substance	Identification numbers		Number of registrations	Tonnage Band (t/a)						
		CAS	EC		> 1000	100 - 1000	10 - 100	10 - 10	1 - 10	1	
Ag	Silver (massive, crystals, flakes and powder); raw and impure silver (depending on)	7440-22-4	231-131-3	22	3	3s	8	8s	9	9s	2
Au	Silver nitrate	7761-88-8	231-853-9	8	1	1s	3	3s	2	2s	2
Ir	Disilver oxide	20667-12-3	243-937-1	4	1	1s	2	2s	1	1s	2
Os	Disilver(1+) sulphate	10294-26-5	233-653-7	2							2
Pd	Silver carbonate	534-16-7	208-590-3	2							2
Pt	Silver chloride	7783-96-6	232-033-3	3			1	1s	1	1s	1
Rh	Silver iodide (int.)	7783-96-2	232-038-0	1							1
Ru	Silver fluoride (int.)	7775-41-9	231-895-8	1							1
	Silver bromide (int.)	7795-23-1	232-076-8	1							1
	Silver arsenide (int.)	70333-07-2	274-573-2	1							1
	Disilver sulphide (int.)	21548-73-2	214-438-2	1					1	1s	1
	Silver metal with PGMs (~44-64% Ag)	Multiple	Multiple	1							1
	Anode slime (after Ag electrolysis), leaching (Ni-free) slime (~20% Ag)	Multiple	Multiple	2	1	1s			1	1s	1
	Roasted (Se-free), dried slime (~12% Ag, 15% Pb)	Multiple	Multiple	1	1	1s					1
	Ag electrolyte (10-15% Ag, ~5% Cu)	Multiple	Multiple	2			1	1s			1
	Cementation silver from electrolyte, from gold production	Multiple	Multiple	2					1	1s	1
	Anode silver	Multiple	Multiple	1	1	1s					1
	Refractory brick containing PGMs (~2-8% Ag, < 0,1% Pt, < 0,1% Pd)	Multiple	Multiple	1							1
	Slag, dore slag, dore furnace, converting slag, Kaldor furnace slag (int.)	67711-98-2	266-975-1	3	3	2s + 1s					
	Zinc, desilverizing skims (int.)	69029-60-3	273-802-3	2	1	1s	1	1s			
	Silver crusts (< 2,5% Ag)	69029-57-8	273-799-9	1	1	1s					
	Lead dross (< 2% Ag, 62% PbO, 24% ZnO)	69029-52-3	273-796-2	1			1	1s			
	Base metal residues, lead smelting (< 1,5% Ag, 77% PbO, 5% CuO)	69029-79-1	273-824-7	1			1	1s			
	Dore (int.)	69099-47-6	273-793-6	2	1	1s	1	1s			
	Potassium dicyanoargentate(I)	506-61-6	208-047-0	5					4	4s	1
	Silver cyanide	506-64-9	208-048-6	4							4
	Disilver telluride (int.)	12002-99-2	234-419-7	1							1
	Disilver selenide (int.)	1302-09-6	215-099-8	1							1

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2. Quality of Received Information

- Not all companies have given details of their materials:
 - Silver: 17 of 21 supplied;
 - Disilver oxide: 3 of 4 supplied.
- Trustee has reverted individually to certain companies in order to get prompt details on:
 - Physical form;
 - Impurities.
- Information on intermediates is scarce or “retained” because:
 - Not placed on the market (no MSDS, no tests);
 - If placed on the market, not placed as substances but in preparations (information available on preparations but not on intermediates as such);
 - Registration of intermediates implies submission of “any existing available information”.
 - subject to interpretation // subject to prompt harmonisation within Eurométaux.

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2.1. Main information gaps

- Consultants are requesting detailed information on both substances and intermediates:
 - Granulometry, particle size distribution;
 - Bulk densities for powders, grains, pellets;
 - Structural/Spectral/Mineralogical data;
 - Boiling, melting, decomposition points/temperatures;
 - Range of impurities;
 - Classification of substances/intermediates and impurities.

Information which is not delivered will need to be produced → **COST INCREASE!**



3. Substance profiles: silver examples

- Silver
 - Disilver oxide
- Extracts available in your handouts.

- Substance profiles will be circulated so each Member can verify whether the compiled information faithfully represents their specific materials (verify tonnage, impurities ranges, classification, data gaps to be completed → **it is never too late to contribute!**).
- When verifying profiles, Members will be required to specify uses and other information deemed necessary for the preparation of the Registration Dossier (including the Chemical Safety Report with Exposure Scenario).



4. Silver Work Programme



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Who?	What?	When?
Members	1. Send any available information on Silver and Silver compounds to Trustee.	1. Before end of January 2008
Consultants	2. Launch Phase IIa and Phase IIb of the Silver Project.	2. January 2008
Ag WG, TAP and Trustee	3. Complete substance profiles, discuss substance sameness and circulate all draft profiles to Members.	3. By mid-February 2008
Members	4. Verify completeness and representativity of information compiled in the Silver substance profiles.	4. By end of February 2008
Ag WG and TAP	5. Review, compile and forward received information and studies on Silver to Consultants.	5. By end of February 2008 / Continuous
Ag WG and TAP	6. Review and analyse Consultants' report on extended Literature Search and Enabling tests.	6. By mid May 2008
All	7. Prepare aligned and harmonised pre-registration of silver substances and intermediates.	7. Before June 2008

4.3. Gold Work Group

Sarah Hottenroth, Umicore
Chairperson of the Gold Work Group



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Content

1. Latest Gold substance indicative list: substances, intermediates, refinables and “interconsortia materials”.
2. Collection of technical specifications: quality of received information and of Members’ feedback / information gaps
3. Substance profile: example(s).
4. Envisaged Gold work programme for 2008 and 2009.

1. Latest Gold substance indicative list

(Available in handouts)

Comments	Name of the substance	Identificatio CAS	Frequen- cy	Tonnage Band						
				100 - 1000	10 -100	1-10				
Substances for pre-registration	Gold (massive, crystals, powder), cathodes,	7440-57-5	substance	20	1	1s	11	10s + 1i	8	8s
	Tetrachloroauric acid, Hydrogen tetrachloraurate (III)	16903-35-8;	substance	4	1	li			3	3s
	Ammonium gold (1+) sulphite	71662-32-3	substance	1					1	1s
	Gold hydroxide (int.)	1303-52-2		1					1	1i
	Gold oxide (int.)	1303-58-8		1					1	1i
	Gold chloride (int.)	13453-07-1		1					1	1i
	Digold sulphide (int.)	1303-60-2		1					1	1i
	Digold trisulphide (int.)	1303-61-3		1					1	1i
	Gold telluride (int.)	37043-71-3		1			1	1i		
Non-waste refinable/recover- able materials	Anode slime (~35% Au, following Ag electrolysis)			0						
	Raw gold slime, semi-refined gold, preleaching solution		substance	3			1	1s	2	1s + 1i
	Balsams, copaiba, sulfunised, mixed with turpentine, gold salts	68990-27-2	substance	1					1	1s
Link with other consortia (e.g.)	Potassium dicyanoaurate(I), Potassium gold (I) cyanide	13967-50-5	substance	7			2	2s	5	5s
	Potassium tetrakis (cyano-C)aurate	14263-59-3	substance	1					1	1s

2. Quality of received information



1. Missing information:
 - for gold: 5 out of 20
 - for raw gold slime,...: 3 out of 3
 - for balsam: 1 out of 1
 - for potassium dicyanoaurate: 2 out of 7



2. Some submitted information needs to be addressed back to the company for clarification or due to incompleteness.
3. Especially for intermediates there are limited information available.
4. Further analysis of information is necessary to determine major data gaps.

3. Substance profile: example(s)



- Gold
 - Gold hydroxide
- Extracts available in your handouts.

Substance profiles will be sent to the Members as it will be their task to ensure that the substance profiles fit with their substances.



Delicate task for those Members who have not submitted complete/any information!

5. Envisaged Gold work programme



Who?	What?	When?
Members	1. Submit all available information on gold and gold compounds to Trustee.	1. Before end of January 2008
TAP, MC and Trustee	2. Send quotation requests to identify consultants candidates.	2. Before end of January 2008
Au WG, TAP and Trustee	3. Complete substance profiles, discuss substance sameness and circulate draft profiles to Members.	3. By mid-February 2008
Members	4. Verification for confirmation that their own substances correspond to the profile.	4. By end of February 2008
Au WG, TAP and MC	5. Identify adequate consultant(s) for data gap analysis and enabling testing – Order Phase I of the Gold Project.	5. Before 15th March 2008
Au WG, TAP and Trustee	6. Review, compile and forward received information and studies on Gold to Consultant(s).	6. Before end of March 2008
Au WG and TAP	7. Review and analyse Consultants' reports.	7. Summer 2008
All	8. Prepare aligned and harmonised pre-registration.	8. Before June 2008

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4.4. PGM's Work Group

Mark Raffray, Johnson Matthey
Chairman of the PGM's Work Group



European Precious Metals Federation
Precious Metals Consortium

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Content



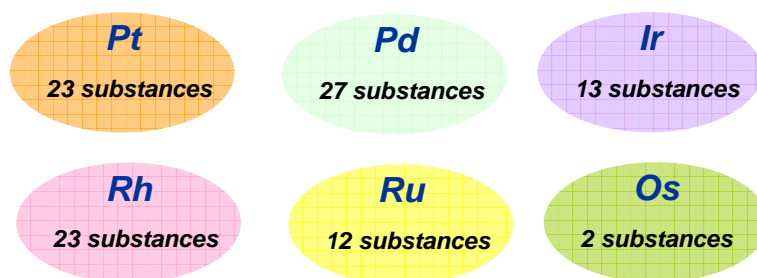
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1. Latest PGM's substance indicative list.
2. Technical specifications: extent and quality of received information and substance profile assembly.
3. Envisaged PGM's work programme from 2008.

1. Latest PGM substance indicative list



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- Excludes refinables related substance entities.
- Few substances are exclusively intermediates.
- Therefore approx. 100 substances will form the PGM registration project.

2. PGM technical specifications & substance profiles



- Currently 9 out of the 14 companies with declared PGM have submitted technical specifications.
- Some declared PGM substances lack any technical specifications.
- Where specifications have been submitted, quality is variable:

Data adequate: 2	Some gaps: 5	Poor data: 2
----------------------------	------------------------	------------------------
- Insufficient basis to proceed now with assembling profiles.
- Substance sameness assessment is particularly important for PGM and will be needed for harmonised pre registration.
- On positive side, separate to PMC, three of PGM companies have been assessing sameness and C&L profiles since Nov '06.

2. Ongoing efforts

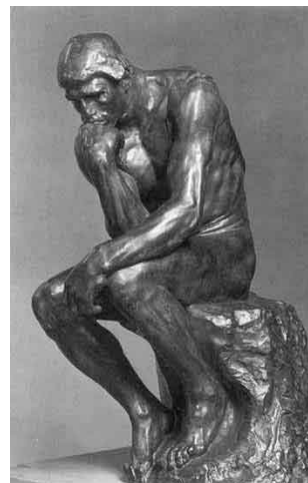


PGM WG:

- Acknowledge leadership provided to date by Willem Pastoors. Unlikely that BASF Catalysts Germany will now play active role in PGM WG.
- New chairperson now envisaged

Options to complete initial substance profiling (can be complimentary):

1. Members commit more internal resource to contain total technical effort on PGM / buddy system assignments.
2. Augment internal resource with short-term external contractor for all PM technical assessments including part effort devoted to PGM.



3. PGM Work program from 2008



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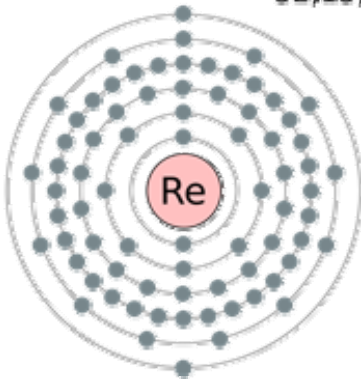
- Define harmonised pre registration approach prior to June 2008.
- If members agree, engage PGM registration project consultant 1st quarter 2008.
- Literature search/gap analysis project in 2008 (as soon as inventory considered essentially complete and stable).
- Possibility of initiating small amount of enabling testing toward end of 2008.

75: Rhenium

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32,13,2



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5. Technical assessment on Rhenium

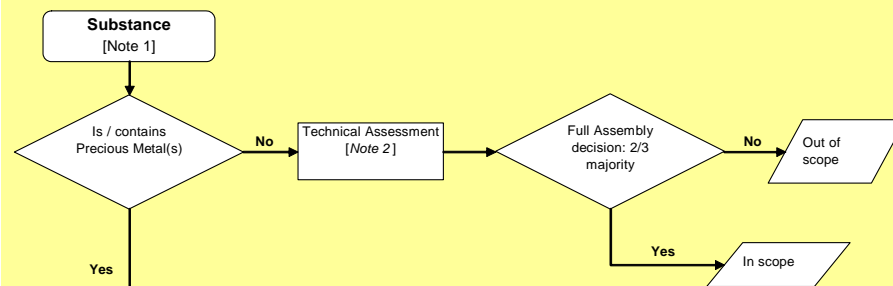
Mark Raffray, Johnson Matthey
Chairman of the Technical Advisory Panel

5.1. Background

- PMC Trustee approached by external companies/consultant acting on behalf of 3rd parties.
- Inquiring whether interest in including Re in PMC.
- Externals (not PMC members) intending to register Re family substances:
 - 2 companies with definite intent;
 - 1 consultant representing traders with definite intent;
 - 2 other companies with probable interest.
- Current PMC members:
 - 3 current members with confirmed interest in Re inclusion in PMC
 - 2 other members signified potential interest.

5.2. Non-PM substance assessment process

Decision Tree applicable to substances covered by the Consortium Agreement



- Re family substances not currently in scope of PMC.
- PMC Agreement/DT requires Technical Assessment and vote:
 - Summary points of Technical Assessment presented here;
 - Assessment covers expected testing/registration duties + complexity considerations (e.g. if SVHC, hazard ranking), potential for read-across.

5.3. Rhenium technical assessment/registration

List of Rhenium compounds and tonnage bands

	Name	Tonnage Band			Registrant nr
		10-100	1-10	Not yet specified	
1	Rhenium (powder/pellets)	1	2	1	4
2	Perrhenic acid	1	2	1	4
3	Ammonium perrhenate	1	2		3
4	Sodium perrhenate	1	0		1

- Re family substances not high hazard, and not SVHC.
- Limited test data expected to be already in existence:
 - Data gaps predicted for ecotoxicology;
 - But due to tonnages only low tier testing requirements (Ann VII, VIII);
 - Costly *in vivo* studies will **not** be required to support registration;
 - Chemical Safety Report / CSR generation required due to tonnages.
- Specific follow up: are some Re substances only intermediates?

5.4. Business case for including Re in PMC

- Several of the PMC members have interests in Re.
- Meshes well with assessment and registration project for PGMs (similar: tonnages, test requirements, Exposure Scenarios etc.):
 - Rather simple to add onto a consultant scope of work;
 - Tasks predicted as similar to low-moderate hazard PGM.
- Enlarges the PMC Membership and further shares Generic costs.
- Metal specific costs modest (and read across prospects good):
 - PMC cost-sharing formula allows Re-specific cost blocks to be added without detriment to other members.
- Technical level buy in at TAP & WG meeting 20/21 Sept:
 - Informal vote: 13 out of 14 attendees supportive of Re inclusion.

VOTE

5.5. Way forward if Vote is positive



- Announce whether Re will or not be covered to interested parties:
 - Individual notification;
 - MMTA;
 - Eurométaux' REACH Metals Gateway.
- Should the Assembly agree to include Re in PMC effort:

Who?	What?
MC	Set deadline for registrants to join the PMC and submit Appendices 1 & 2 + Page 49.
Secretariat	Set up a Re WG, update the PMC Work Structure.
Trustee	Prepare a Re substance indicative list and assign buddy system.
Trustee	Gather all available data on Re and Re compounds to prepare substance profiles and quotation request to consultants.
TAP and Secretariat	Contact potential consultants for Re work programme. Separate or as part of PGM's work programme, i.e. additional group but separate budget.
TAP and Secretariat	Establish Re budget and estimate PMC cost-sharing for 2008(II).

6. Accounts and Budget

Caroline Braibant, EPMF
Secretariat & Trustee



6.1. 2007 Accounts

- The EPMF Members have financed the expenses to launch the PM Consortium in 2007 → 138 100 €.

Both amounts will be fully reimbursed in 2008.

- Johnson Matthey has financed the expenses of the Silver Project in 2007 → 50 680 €.

- From the 138 100 €, around 25 000 € (tbc by Accountant by mid-January 2008) have not been spent in 2007.
- 138 100 - ~25 000 € will be charged as 2007 PM Consortium budget.
- PM Consortium members having joined the Consortium in 2007 will be charged (according to the cost-sharing formula) for the 2007 spent budget ([138 100 € - ~25 000 €]/26 companies) in order to reimburse the EPMF Members.
- 2007 and 2008(I) costs will be invoiced in January 2008 → One invoice for both years!

6.2. 2008 Budget

(Proposal available in handouts)

- REACH Generic Costs- increase due to:
 - Secretariat & Trustee salary increase (as approved in June 2007);
 - Possible Professional Liability Insurance;
 - Neutral and independent technical support for the Consortium.
- Silver specific Costs:
 - Based on EBRC's & Euras' recommendations and estimates;
 - Revised by TAP experts considering available information, updated silver indicative list and REACH requirements (vs. conservative RA requirements).
- Gold specific and PGM's- specific Costs:
 - Based on silver experience;
 - Costs foreseen to perform a data gap analysis and launch set of agreed enabling tests in 2008;
 - Are subject to refinement once the adequate consultants have been identified and have submitted detailed quotations.

6.3. Application of the cost-sharing formula: **Cyanides**

- **Fresh news:**

- CEFIC's Cyanide Sector Group are currently preparing a pre-consortium agreement;
- The scope of activity of this consortium is intended to be limited to NaCN, KCN and HCN only (soluble, common tox/ecotox profile, and info available);
- Metal cyanides, such as **PM cyanides, are out of scope** – PM Consortium should organise internally to cover cyanides. Proposal: launch mini-project for PM cyanides, supported by a PM CN WG (ok as per teleconference 11/12/07 – Assembly's opinion?);
- **Members will not be charged for cyanides** (not considered in application of cost-sharing formula) **until second half of 2008.**

6.3. Application of the cost-sharing formula: **Intermediates**

- Assuming only **light assessment and preparation** would be required for the registration of intermediates and that no company would only register intermediates, the current cost-sharing formula does not include a place-holder / weight factor for intermediates;
- Experience has shown that registration of intermediates depends on legal interpretation, application of "strict control", preparation of aligned pre-registration and registration and that some companies do only have intermediate PM compounds;
- Substance profiles will be prepared for intermediates and consultants might/do include intermediates in their literature search to maximise amount of available information and subsequent read-across potential;
- Some companies are "blocked" from entering the PM Consortium because they only have intermediates to declare;
- It is therefore recommended to TAP, CWG and LWG to work on **common alternative to include intermediates in cost-sharing formula**;
- Alternative will be proposed at 2008 Plenary Meeting, **Members will not be charged for intermediates before any agreement is reached** (second half 2008?).
- Same applies to refinables – depends on expertise required, workload, etc...

6.4. Invoicing: Legal provisions

(Article 7.4 of the Consortium Agreement)

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- As described in Article 4.3.2 (g), invoicing shall be performed by the Secretariat of the Consortium.
- Invoices shall be sent every 6 (six) months, in January and in July, to the Members, by e-mail and by post, to the address specified by the Member in its Signature folio [...].
- The Secretariat shall immediately electronically notify the nominated Representative of the Member on such invoicing. In the event the Representative has not received the electronic notification on time, [...], the Representative shall promptly inform the Secretariat.
- Members shall pay their due sum to the bank account number specified in the invoice not later than 2 (two) months after reception of the invoice.
- If the payment is made after that period, the interest rate as per the London Interbank Offered Rate (LIBOR) shall be monthly added to the due sum and payment shall become immediate. The "Breaching Member" [...], will have no voting right until payment has been received.

6.5. Invoicing: support material

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- Preliminary draft calculations have been done by the Secretariat & Trustee (revised by the Accountant) in order to provide each Member with an estimate of the expected amounts to be invoiced for 2007 & 2008(I):
 - Calculations available in handouts.
- ID code as well as copy of Appendices 1 & 2 as submitted by each Member to the Trustee are provided in a sealed envelope:
 - Delivered to each official Representative at the beginning of the Assembly meeting;
 - Please be discrete when opening the envelopes – they contain **CBI**.



6.6. Invoicing: tips & recommendations



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- Invoices will be sent to Members in January 2008:
 - One invoice per company (covering all declared Affiliates, as indicated in Information box 2 of Appendix 2);
 - Amount to be invoiced and invoicing address (last line of Information box 1 of Appendix 1) needs to be revised and confirmed by each Member (deadline tbd);
 - Following revisions and adjustments (where applicable), should any of the foreseen amounts to be invoiced in January 2008 increase in 10% or more, the Secretariat will inform and justify the increase to all Members before invoices are sent;
 - No reply in due term (deadline tbd) will be deemed to mean acceptance of invoice;
 - Payment due to the latest, two months after reception of invoice.
- Both EPMF and Eurométaux logo will appear on the invoice. For those companies who are also members of Eurométaux and EPMF, please make sure you use the adequate account number.

7. Key tasks and proposed timeline

Caroline Braibant, EPMF
Secretariat & Trustee



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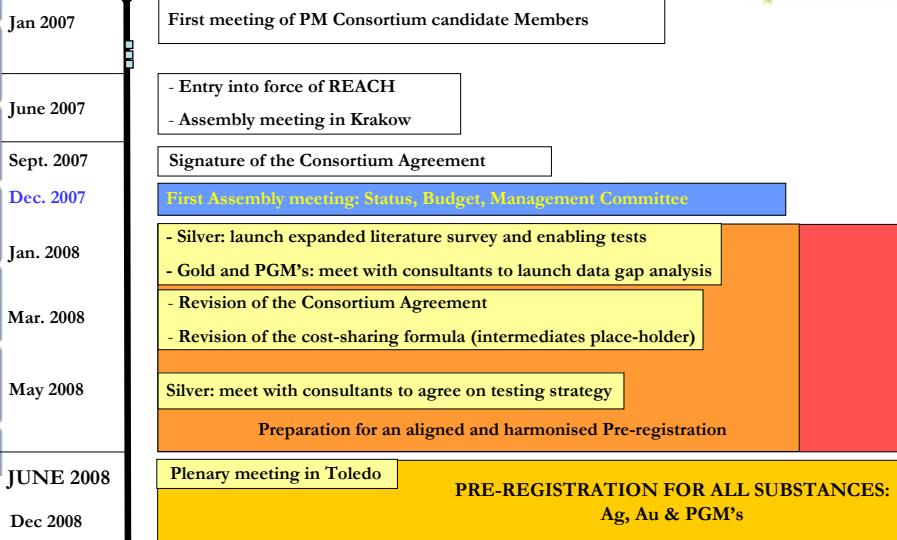
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7.1. Key tasks

(Detail available in handouts)

Trustee	Continue data-gathering exercise, follow-up on Members' payments, prepare 2008 Plenary Meeting.
TAP	Follow-up and support WG's, use expertise in REACH-generic and -PM issues.
Ag WG	Finalise substance profiles and keep track on consultants' work and proposals (with TAP).
Au WG & PGM's WG	Finalise substance profiles and prepare scope for consultants (with TAP).
CWG	Design place-holders alternatives to include intermediates in the cost-sharing formula (with TAP and LWG).
LWG	Revise needs for adaptation of the Consortium Agreement (based on general Members' suggestions and CWG results).
MC	Discuss Trustee's Liability with Eurométaux, supervise and guide WG's.

7.2. General timeline





7.3. Key/upcoming meetings

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- **PM Refiners** – Brussels, 12 Dec. 2007.
- **Alloys and bank products** – Switzerland, 6 Feb. 2008.
- **TAP + Au consultants** – tbd (Late Jan. 2008?).
- **PM WG** – Brussels, ~15 Feb. 2008.
- **TAP + PGM's consultants** – tbd (Late Feb. 2008?).
- **CWG + LWG** – Brussels, ~10 Mar. 2008.
- **MC** – tbd (Late Apr. 2008).
- **TAP + Ag consultants** – tbd (Late May 2008?).



7.4. Next Assembly Meeting

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- ANEMEPRE, represented by don Julián Sardá (SEMPSA), has kindly agreed to host the 2008 Plenary Meeting in Toledo, Spain.
Thank you!

- Original date proposed: **13th June 2008.**
- Is this date still suitable for all Members?

June 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13?	14
15	16	17	18	19	20?	21
22	23	24	25	26	27	28
29	30					

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8. Any other business?

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9. Summary and key issues

Robert Binney, Johnson Matthey

Chairman of the Management Committee





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- Very much a technical Agenda
- Meet timetable
- Minimise costs
- Ensure adequate resource available
- Resolve intermediate issue



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Thank you!
We hope to see you
in June!