

## SUMMARY OF THE COM ACTIVITIES (2006-2010)

### COM activities in 2006

1) A business meeting of IMA-COM was held during the IMA meeting in Kobe, Japan, July 2006.

2) The COM website remains the main vehicle for communication with members. *COM website*

COM's website is hosted at the Geological Survey of Finland; <http://www.gsf.fi/domestic/com/ima-com.htm>. The website provides a central source of information on COM activities, with a mission statement, a brief history of the commission, list of national representatives, details of past and future activities and publication reports. During 2006, the website has been updated.

3) *Scientific session during the IMA meeting in Kobe, Japan, July 2006*

Session 16: 'Mineralogy of Ore Deposits'. Conveners were: Nigel J. Cook (Norway), Kari Kojonen

(Finland), Hiroharu Matsueda (Japan), Roland K. W. Merkle (South Africa) and Masaaki Shimizu

(Japan). A total of 34 abstracts were accepted and published in the Program and Abstracts volume;

17 oral presentations were given (Wednesday 26th July) and 17 poster presentations were given

(Thursday 27th July).

4) *Report of COM sub-commission on sulphosalts*

The sulphosalt sub-commission of COM (leaders Yves Moëlo and Emil Makovicky) presented the final draft manuscript of their full-length report during the Business Meeting in Kobe. The final version will be submitted for publication in leading mineralogical journals and an abridged version will be made available for download from the COM website in the near future.

### COM activities in 2007

1) No business meetings of IMA-COM were held during 2007. The next business meeting is scheduled to take place during the 33rd IGC in Oslo.

2) COM activity in 2007 has focussed on the scientific sessions planned for *33rd IGC-2008*:

- Metals in the Earth: from vital resource to environmental hazard

(organized by CAM, COM and WGEM). Conveners: David Vaughan, Dogan Pactunc, Kari Kojonen

- 2. Au-Ag telluride-selenide deposits (organised by COM) Conveners: Kari Kojonen, Nigel Cook

- 3. Platinum group mineralogy organised by IGCP 486 and COM) Conveners: Andy McDonald, Kari Kojonen

3) IMA-COM has also held discussions about sessions that the working group will organise at the *2010 IMA General Meeting* in Budapest. One suggestion that has received significant interest is:

'Automated Technologies in Ore Mineralogy'.

4) *COM's website* is hosted at the Geological Survey of Finland; <http://www.gsf.fi/domestic/com/ima-com.htm>. The website provides a central source of information on COM activities, with a mission statement, a brief history of the commission, list of national representatives, details of past and future activities and publication reports. During 2008, the website has been updated.

5) *Report of COM sub-commission on sulphosalts*

The sulphosalt sub-commission of COM (leaders Yves Moëlo and Emil Makovicky) had presented the final draft manuscript of their full-length report during the Business Meeting in Kobe (2006). A final version is currently in press in European Journal of Mineralogy, to appear in December 2007 /January 2008.

### **COM activities in 2008**

1) The business meeting took place during the 33rd IGC in Oslo.

2) COM activity in 2008 has focussed on these scientific sessions organized for *33rd IGC-2008*:

- Metals in the Earth: from vital resource to environmental hazards (jointly with CAM). Conveners: David Vaughan, Dogan Pactunc, Kari Kojonen
- 2. Au-Ag telluride-selenide deposits (jointly with IAGOD and IGCP 486) Conveners: Kari Kojonen, Nigel Cook
- 3. Platinum group mineralogy. Conveners: Andy McDonald, Kari Kojonen

3) IMA-COM has proposed the following session for the next *2010 IMA General Meeting* in Budapest. 'Automated Technologies in Ore Mineralogy' (Conveners: Roland Merkle, Alan Butcher and Hanna Horsch).

These additional sessions have been also proposed 1) PGM (tied in to the Leoben short course 2) gold session (possibly focusing on recent advances in the understanding of 'invisible' gold?), 3) session on 'Ore mineralogy of magmatic-hydrothermal deposits in the Alpine-Carpathian-Balkan area' and 4) 'Modular structures in ore minerals'. Offers of these additional sessions should be communicated to the local organizing committee by the end of 2008.

4) *COM's website* is hosted at the Geological Survey of Finland; <http://www.gsf.fi/domestic/com/ima-com.htm>. The website provides a central source of information on COM activities, with a mission statement, a brief history of the commission, list of national representatives, details of past and future activities and publication reports. During 2008, the website has been updated. Regarding COM website development, the person responsible, Kari Kojonen, during the Oslo meeting, explained that the COM virtual ore microscopy is still under construction. Andy McDonald, Hassan Helmy and other national representatives present at the meeting, offered their help for the development of this important aspect of the COM web site. Kari Kojonen will be sending instructions to all the national representatives regarding format and accompanying descriptions, as soon as possible.

5) *Report of COM sub-commission on sulphosalts*

The final report of the 'Sulphosalt' sub-commission (led by Yves Moëlo and Emil Makovicky) was published in European Journal of Mineralogy in February 2008.

6) *Report of COM Selenide-Tellurides*

A draft report of the Selenide-Telluride' sub-commission will be prepared for the next Business Meeting of IMA-COM (Budapest, 2010).

## COM activities in 2009

1) No business meetings of IMA-COM were held during 2009.

2) COM activity in 2009 has focussed on the organization of the following scientific sessions and short course for the 20<sup>th</sup> General meeting of the International Mineralogical Association, 21-27 August 2010, Budapest, Hungary.

### Scientific sessions:

- EG51: Crustal fluids and gold  
Convenors: *Hartwig FRIMMEL, Georges BEAUDOIN, Pasi EILU*  
Brief description of the session:  
Variable types of gold deposits at different crustal levels: implications on gold transport and recycling by different crustal fluids.
- EG52: Platinum group minerals in the new millenium  
Convenors: *Andrew M. McDONALD, Aberra MOGESSIE, Oskar THALHAMMER*  
Brief description of the session:  
A session dedicated to expanding our current state of knowledge on a variety of topics relating to the crystal chemistry, synthesis, geochemical character, geological occurrence and beneficiation of platinum group minerals.
- GP81: Volcanoes: The mineral factory  
Convenors: *Alexandru SZAKÁCS, Masaaki SHIMIZU, Yuri TARAN*  
Brief description of the session:  
The session addresses all topics related to mineral occurrence and genesis in volcanic environments, including rock-forming minerals, minerals of the hydrothermal alteration, ore minerals and minerals formed from volcanic and post-volcanic exhalations.

### Short course

WSC5: Mineralogy, geochemistry and ore deposits of platinum group elements (PGE)

Date: August 28-September 1 (post-conference)

Venue: Dept. of Applied Geological Sciences and Geophysics, University of Leoben (Austria)

Sponsors: IMA-COM, NAWI-Graz, University Centre of Applied Geosciences Styria (UZAG), and Mineralogical association of Austria.

Contact person: Federica Zaccarini (University of Leoben, federica.Zaccarini@unileoben.ac.at)

Convenors: Aberra Mogessie, Christoph Hauzenberger, Oskar A.R. Thalhammer, Federica Zaccarini, Ferenc Molnár,

Invited speakers: R. Bakker, G. Garuti, C. Hauzenberger, M. Ohnenstetter, A. McDonald, T. Meisel, A. Mogessie, F. Molnár, M. Tredoux, O. Thalhammer, F. Zaccarini

Brief summary: The course will include:

- Description of the most important PGE deposits, their genesis, mineralogy and geochemistry
- Practical sessions: optical microscopy, electron microprobe, Raman spectroscopy
- Field trip to the mafic-ultramafic massif of Kraubath

Web: <http://institute.unileoben.ac.at/mineralogie/IMA/Home.html>

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#### **4) Report of COM Selenide-Tellurides**

A draft report of the Selenide-Telluride' sub-commission will be prepared for the next Business Meeting of IMA-COM (Budapest, 2010).

### **COM activities in 2010**

1) The next IMA COM business meeting will take place during the 20<sup>th</sup> General meeting of the International Mineralogical Association, 21-27 August 2010, Budapest, Hungary, more precisely on Saturday August 21st, 15.00-16.30.

In the framework of this meeting, 3 sessions and 1 short course will take place (see point 2 of the COM activities in 2009).

2) The following workshop, sponsored by COM, will take place: Process mineralogy of metalliferous ores: An introduction for geologists. Camborne School of Mines, University of Exeter, United Kingdom, 22nd – 25th June 2010.

This workshop aims to give an introduction to process mineralogy of metalliferous ores. It will provide experience of common mineral processing techniques, and demonstrate, through examples, how mineralogical analysis, using QEMSCAN and other techniques, is used to optimize mineral processing operations. An excursion will focus on the geology and past mining operations in Cornwall. The workshop is targeted at junior geologists and postgraduate geology students that work or interact with mineral processing operations.

Conveners: Jens Andersen, Rob Fairhurst, Richard Pascoe, Gavyn Rollinson  
*Camborne School of Mines, University of Exeter*

Maria Boni, *Università di Napoli*

Richard Herrington, *Natural History Museum, London*

Attendance fees £ 250\* (incl. the excursion, lunches and refreshments)

\* Students and geologists from economically disadvantaged countries can apply to have their fee waived.

Programme and registration information:

<http://tinyurl.com/yekprkn>

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