



---

## Annex of the IMA report for 2008 to IUGS

---

- Item 1 - List of the adhering mineralogical societies or groups
  - Item 2 - List of council members
  - Item 3 - List of IMA Commissions and Working groups with their officers (14 November 2008)
  - Item 4 - Medal Committee Member
  - Item 5 - Checklist for 2009 IMA medal nomination
  - Item 6 - Handbook of the Outreach Committee
  - Item 7 - Report of the IMA Outreach subcommittee on IMA databases on Mineral properties comprising the IMA list of minerals
  - Item 8 - List of 2008 meetings, workshops and short courses with the participation of IMA Commissions and working groups
  - Item 9 - List of IMA Commissions and Working groups publication
  - Item 10 - Publication in Elements
  - Item 11 - Agenda of Council and business meetings in Vancouver
  - Item 12 - Interim Report to IMA Council on the CNMNC, by J. Grice
  - Item 13 - CAM report for 2008
  - Item 14 - CMGIP report for 2008
  - Item 15 - CNMNC report for 2008
  - Item 16 - COM report for 2008
  - Item 17 - CPM report for 2008
  - Item 18 - WGEMG report for 2008
  - Item 19 - WGIM report for 2008
  - Item 20 - WGSECE report for 2008
- 

Loading the 2008 IMA annual report to IUGS from the IMA website :

<http://www.ima-mineralogy.org/transactions>

[http://www.ima-mineralogy.org/download/IUGSreports/2008reports/IMA2008\\_App](http://www.ima-mineralogy.org/download/IUGSreports/2008reports/IMA2008_App)

The IMA Com-WG report are available at the following address on the IMA website, in which postal address, phone and Fax numbers of the Com-WG members are reported:

<http://www.ima-mineralogy.org/download/IUGSreports/2008reports/Com-WGRpt2008.pdf>



### Item 1 - List of National Representatives

(modified in July 2008)

<http://www.ima-mineralogy.org/AdheringOrganizations/adh-org.html>

	<b>Country</b>	<b>National Representatives</b>	<b>e-mail address</b>
1	Argentina	Milka K. de BRODTKORB	milkabro@gl.fcen.uba.ar
2	Australia	William D. BIRCH	bbirch@museum.vic.gov.au
3	Austria	Ekkehart TILLMANN	ekkehart.tillmanns@univie.ac.at
4	Belgium	André-Mathieu FRANSOLET	amfransolet@ulg.ac.be
5	Brazil	Fabio Ramos Dias de ANDRADE	dias@usp.br
6	Bulgaria	Ivan BONEV	bonev@geology.bas.bg
7	Canada	Robert F. MARTIN	bobm@eps.mcgill.ca
8	China	Liben WANG	wlb@cags.net.cn
9	Croatia	Vladimir BERMANEC Goran Kniewald	vberman@public.srce.hr kniewald@irb.hr
10	Czech rep.	Milan NOVÁK	mnovak@sci.muni.cz
11	Denmark	Ole JOHNSEN	oj@savik.geomus.ku.dk
12	Egypt	Mohamed E. HELMY	Mamandour@hotmail.com
13	Finland	Seppo I. LAHTI	seppo.lahti@gsf.fi
14	France	Daniel NEUVILLE	neuville@ipgp.jussieu.fr
15	Germany	Wolfgang Hofmeister	hofmeist@uni-mainz.si
16	Greece	Michael Vavelidis	vavelidi@geo.auth.gr
17	Hungary	Tamas G. WEISZBURG	weiszburg@ludens.elte.hu
18	India	C. SRIKANTAPPA	msimys@googlemail.com
19	Italy	Andrea ORLANDO	aorlando@geo.unifi.it
20	Japan	Takamitsu YAMANAKA	t.yamanaka@kce.biglobe.ne.jp tyamanaka@gl.ciw.edu
21	Korea (South)	Sung Keun LEE	sungkee@snu.ac.kr
22	Netherlands	Martyn Drury	martynd@geo.uu.nl
23	New Zealand	Eddie Davis	eddie.davis@rsnz.org
24	Norway	Nigel COOK	n.j.cook@nhm.uio.no
25	Poland	Marek MICHALIK	Michalik@geos.ing.uj.edu.pl
26	Portugal	Álvaro M. MADUREIRA PINTO	alvaro.pinto@fc.ul.pt
27	Romania	Gheorghe UDUBASA	udubasa@geo.edu.ro
28	Russia	Dmitry D.V.RUNDQVIST	dvr@sgm.ru
29	Slovakia	Martin CHOVAN	chovan@fns.uniba.sk
30	Slovenia	Meta Dobnikar	meta.dobnikar@ntf.uni-lj.si
31	South Africa	Johan de VILLIERS	jpdev@postino.up.ac.za
32	Spain	Manuel Prieto	mprieto@geol.uniovi.es
33	Sweden	Ulf HALENIUS	Ulf.Halenius@nrm.se
34	Switzerland	Eric REUSSER	eric.reusser@erdw.ethz.ch
35	Ukraine	Victor M. KVASNYTSYA	vmkvas@i.com.ua
36	U.K.	Mark E. HODSON	M.E.Hodson@reading.ac.uk
37	USA	George HARLOW	gharlow@amnh.org
38	Uzbekistan	Rustan I. KONEEV	aripovumid@yahoo.com



**Item 2 - List of council members**

http://www.ima-mineralogy.org/directory.html

<p><b>President:</b> Takamitsu Yamanaka (*) Department of Earth and Space Sciences Graduate School of Science Osaka University 1-1 Machikaneyama Toyonaka Osaka - 560-0043 Japan Tel-Fax: 81 6 6850 5793 e-mail: t.yamanaka@kce.biglobe.ne.jp tyamanaka@gl.ciw.edu  President in 2006</p>	<p><b>Secretary:</b> Maryse Ohnenstetter CNRS - CRPG (Centre de recherches pétrographiques et géochimiques) 15, rue Notre Dame des Pauvres - B.P. 20 54501 Vandoeuvre-les-Nancy Cedex, France Tel: 33 (0)3 83 59 42 46 Fax: 33 (0)3 83 51 17 98 e-mail: mohnen@crpg.cnrs-nancy.fr Since 2002</p>	<p><b>Treasurer:</b> Robert T. Downs<sup>£</sup> Dept of Geosciences 522 Gould-Simpson Building University of Arizona 1040 E 4th St. Tucson, Arizona 85721-0077 USA Phone: (520) 626-8092 fax: (520) 621-2672 e-mail: downs@geo.arizona.edu  <sup>£</sup> Named on the 7<sup>th</sup> of November, 2005 Elected in 2006</p>
<p><b>Communication Officer</b> Frances Wall Department of Mineralogy The Natural History Museum Cromwell Road London SW7 5BDUK Tel. +44 (0)20 7942 5623 Fax. +44 (0)20 7942 5537 e-mail: F.Wall@nhm.ac.uk Named in November 2006</p>	<p><b>1<sup>st</sup> Vice-President:</b> Ekkehart Tillmanns Institut fuer Mineralogie und Kristallographie Geozentrum, Althanstr. 14, A-1090 Wien, Austria Tel.: +43 1 4277 53226 Fax: +43 1 4277 9532 e-mail: ekkehart.tillmanns@univie.ac.at Elected in 2006</p>	<p><b>2<sup>nd</sup> Vice-President:</b> Nicolai P. Yushkin Institute of Geology Komi Science Centre UD RAS Syktyvkar Russia e-mail: yushkin@geo.komisc.ru Elected in 1998</p>
<p><b>Past-President:</b> Ian Parsons FRSE Professor of Mineralogy Grant Institute of Earth Science University of Edinburgh West Mains Road Edinburgh EH9 3JW United Kingdom Phone: 44 (0)131 650 8512 Fax: +44 (0)131 650 3184 e-mail: ian.parsons@ed.ac.uk Since 1998</p>	<p><b>Ordinary Councillors</b> Joel Grice Research Scientist Canadian Museum of Nature P.O. Box 3443 Stn D Ottawa, ON, K1P 6P4, Canada Phone: +1 613 364-4057 Fax: +1 613 364-4027 e-mail: JGRICE@mus-nature.ca  Elected in 2006</p>	<p>Kari K.R. Kojonen Geological Survey of Finland Finland Phone +35205502483 Fax: +3582055012 e-mail: kari.kojonen@gsf.fi  Since 1998</p>
<p>Anhuai Lu Professor of Environmental Mineralogy Director of Research Center for Geomaterials and Environment School of Earth and Space Science Peking University Beijing 100871, China Tel: + 86 010 6275 3555 Fax: +86 010 6275 1159 e-mail: ahlu@pku.edu.cn Elected in 2006</p>	<p>Walter V. Maresch Institut für Geologie, Mineralogie und Geophysik Ruhr-Universität Bochum D-44780 Bochum, Germany Tel.: +49 234 3223511 (direct) Tel.: +49 234 3228155 (Secr.) Fax: +49 3214433 e-mail: walter.maresch@rub.de  Elected in 2006</p>	<p>Marcello Mellini Dipartimento di Scienze della Terra Universita di Siena Av.Laterina 8 - 53100 - Siena Tel. +39-577-233936 FAX+39-577-233938 e-mail: mellini@unisi.it  Since 2002</p>

(\*) Present address : Carnegie Institute of Washington  
Geophysical Laboratory  
5251 Broad Branch Road N.W., Washington D.C. 20015  
Phone: 202-478-8940 (office); Phone: 202-255-4574 (cell)

### Item 3 - Officers of IMA Commissions and Working Groups

following the 2008 Vancouver Business Meeting and integrating informations arrived at the IMA secretariat before the 14<sup>th</sup> of November)

<http://www.ima-mineralogy.org/sciactivities.html>

	Council Correspondent	Commission on/ Working Group on			Name
1	Marcello Mellini	Applied mineralogy	CAM	Ch	Dogan Paktunc
				V-Ch	Eric Pirard
				Sec	to be named
		Sub-commission on Mineralogy Applied to Building Materials	(CAM-MABM)	Ch	Maarten A.T.M. Broekmans
Sub-commission on Cultural Heritage and Archaeological Materials	(CAM-CHAM)	Ch	Isabella Memmi		
Sub-commission on Advanced Ceramics and Glasses	(CAM-ACG)	Ch	Hans-Joachim Kleebe		
2	Maryse Ohnenstetter	Gem Materials	CGM	Ch	Lee Groat
				V-Ch	to be named
				Sec	to be named
3	Walter Maresch	Mineral Growth and Interface Processes	CMGIP	Ch	Katsuo Tsukamoto
				V-Ch	Andreas Luttge
				Sec	Jeanne Paquette
4	Joel Grice	Museums	CM	Ch	Lydie Touret
				V-Ch	to be named
		Sec		Dermot Henry	
		Subcommission on Type Minerals (CM-CTMS)		Ch	Nicholas Meisser
5	Joel Grice	New Minerals, Nomenclature and classification	CNMNC	Ch	Peter Williams
				V-Ch	Frédéric Hatert
				VCh	Marco Pasero
				Sec	Stuart Mills
6	Kari Kojonen	Ore Mineralogy	COM	Ch	Nigel J. Cook
				V-Ch	Kari K. Kojonen
				Sec	Federica Zacarrini
7	Takamitsu Yamanaka	Physics of Minerals	CPM	Ch	Eiji Ohtani
				V-Ch	Daniel Neuville
				Sec	Susan Schorr
		WORKING GROUPS			
9	Frances Wall	Environmental Mineralogy	WGEM	Ch	David Vaughan
				V-Ch	Tom Sato
				Sec	Thompson Anne J.B.
10	Ekkehart Tillmanns	Inclusions in Minerals	WGIM	Ch	Sergey Smirnov
				V-Ch	to be named
				Sec	Pei Ni
11	Ian Parsons	Mineral Equilibria	WGEM	Ch	To be named
				V-Ch	To be named
				Sec	To be named
12	to be named	Solid Earth Composition and Evolution	WGSEC E	Ch	Yaoling Niu
				V-Ch	Andrew Kerr
				Sec	Ian Campbell

#### Item 4 - Medal Committee members up to July 2009

<http://www.ima-mineralogy.org/MEDALcommittee/ComMedMd.html>

Committee members	Addresses	Final Year of Office
Joel GRICE (*) IMA Medal Committee Chairman	Canadian Museum of Nature P.O. Box 3443 Stn D, Ottawa, ON, K1P 6P4, Canada <i>Courier:</i> Canadian Museum of Nature 1740 Pink Rd, Gatineau, PQ, J9J 3N7, Canada  <i>e-mail</i> : jgrice@mus-nature.ca Telephone: +1 613 364-4057 Fax: +1 613 364-4027	2008 (1 y)
Masaki AKAOGI	Department of Chemistry, Gakushuin University, 1-5-1 Mejiro, Toshima-ku, Tokyo 171-8588, Japan <i>e-mail</i> : <a href="mailto:masaki.akaogi@gakushuin.ac.jp">masaki.akaogi@gakushuin.ac.jp</a> Phone_ +81-3-3986-0221_Ext. 6462_ fax: +81-3-5992-1029	2009 (2 y)
Christian CHOPIN	Laboratoire de Géologie L'École normale supérieure 24, rue Lhomond 75005 Paris FRANCE <i>e-mail</i> : christian.chopin@ens.fr Fax: +33 1 44 32 20 00	2010 (3 y)
Barb DUTROW	Dept. Geology & Geophysics Louisiana State University, Baton Rouge, LA 70803-4101, USA <i>e-mail</i> : dutrow@lsu.edu Telephone: 225-578-2525 Fax. 225-578-2302	2011 (4 y)
Herta EFFENBERGER	Institut für Mineralogie und Kristallographie, Universität Wien Dr. Karl-Lueger-Ring 1, A-1010 Wien, Austria <i>e-mail</i> : herta.silvia.effenberger@univie.ac.at Telephone: +43 1 4277 53241 Fax: +43 1 4277 9532	2012 (5 y)
Catherine McCAMMON	Bayerisches Geoinstitut Universität Bayreuth D-95440 Bayreuth, Germany <i>e-mail</i> .: <a href="mailto:Catherine.McCammon@Uni-Bayreuth.DE">Catherine.McCammon@Uni-Bayreuth.DE</a> Tel.: +49 (0)921 55 3709/3753 Fax.: +49 (0)921 55 3769	2009 (2 y)
Roberta OBERTI	CNR - Istituto di Geoscienze e Georisorse, Unità di Pavia, Via Ferrata 1, I-27100 Pavia, Italy <i>e-mail</i> : oberti@crystal.unipv.it Telephone: 39 0382 985885 Fax: 39 0382 985887	2010 (3 y)
Igor PEKOV	Faculty of Geology, Moscow State University Vorobievsky Gory, 119899 Moscow, Russia <i>e-mail</i> : igorpekov@mail.ru	2011 (4 y)
Mark WELCH	Department of Mineralogy The Natural History Museum Cromwell Road London SW7 5BD, Great Britain <i>e-mail</i> : mdw@nhm.ac.uk phone: +44-207 942 5111 Fax: +44-207 942 5137	2012 (5 y)

(\*) The new chair is Marcello Mellini, from the IMA council

**Item 5 - Checklist for 2009 IMA Medal Nominations**

<http://www.ima-mineralogy.org/MEDALcommittee/SubNomMd.html>

**NOMINEE**

Nominee	
Address 1	
Address 2	
Phone	
e-mail	
Age	

**NOMINATOR**

(Individual member and/or National Representative of mineralogical societies/groups adhering to IMA)

Nominator	
Address 1	
Address 2	
Phone	
e-mail	

**SPONSOR**

(There needs to be at least 3 but no more than 5 sponsors of the nomination)

Sponsor 1	
Sponsor 2	
Sponsor 3	
Sponsor 4	
Sponsor 5	

**REQUIRED INFORMATION**

N° Doc.	Types of documents required for the nomination package	Number of pieces	Status on the nomination package (to be fulfilled by the Committee Chair)
1	this cover page (checklist for IMA Medal Nominations)	1	
2	a cover letter from the nominator outlining the candidate's qualifications in light of the criteria for the award	1	
3	supporting letters from at least three (3) but no more than five (5) individuals. Letters should focus on how the candidate meets the criteria of the award.	3 to 5	
4	Complete CV* * Bibliography of published works exclusive of abstract, book reviews, and papers not yet accepted for publication	1	

**Other Information**

- The nominator should collect the documents listed in the checklist, in particular the letters of support provided by sponsors. The nomination package should be a single electronic file, preferably as a PDF. The nominator will send the package to the Committee chair at the address: [jgrice@mus-nature.ca](mailto:jgrice@mus-nature.ca). The title of the email should include the name of the nominee.

-The nomination package must be submitted to the chair of the Committee for the award by April 1.

2008 IMA Medal Committee Chairman: Marcello Mellini; e-mail : [mellini@unisi.it](mailto:mellini@unisi.it)

Mail: IMA Medal Committee Chairman Marcello Mellini, Dipartimento Scienze della Terra

Via Laterina 8, 53100 Siena, Italy - Telephone: +39 577 233936

Fax: +39 577 233938

- Nominations can be carried over to following years if the nomination package is updated by the nominator. Any nomination not renewed after 2 years will be not considered further.

---

## **Item 6 - Handbook of the IMA Outreach Committee**

<http://www.ima-mineralogy.org/OutreachCommittee/outreachcom.html>

### **Objectives**

The mission of the Outreach Committee is to aid the IMA Council in identifying programs and activities that have an external focus with the objective to improve the visibility, understanding and appreciation of the IMA and its related commissions and Working groups.

The primary purpose of the Outreach Committee is to recommend and develop research activities, useful and educative outreach materials that will be used by IMA society members, mineralogists, and to a larger extent by Earth scientists including teachers. This will help the interest in Mineralogical Sciences and complementary Earth Sciences. Emphasis will be concentrated on developments of tools for mineralogists, including database development, interactivity between mineralogists through IMA websites development, and communication to members and non-members.

### **Membership**

The Outreach Committee will include members representative of the different fields of activity that have been defined for the Outreach Committee.

The following subcommittee is already included in the Outreach Committee:

- 1) IMA Databases on Mineralogical Properties - chaired by Bob Downs
- 2) Optic Instruments - chaired by David Hirsch
- 3) IMA Archives & History
- 4) IMA Website Development

The following activities could be also comprised within the Outreach Committee work for the IMA development:

- Commissions and Working Group Interface
- Museum Interface
- Liaisons with Associations, foundation and Meetings
- Academic Interface, Education and Public Information
- History, traditions and Archives
- Publications
- Strategic planning

All the members have to be appointed by the IMA Council. The IMA Communication officer will be a member of the Committee as well as the IMA Webmaster, and delegate members from the Commission on New Minerals, Nomenclature and Classification (CNMNC) and the Commission on Museums.

To foster leadership, the Outreach Committee should comprise members in charge of activities and duties recognized by the outreach committee and by the IMA Council. The chair of the committee, with the approval of the board, could appoint additional members if deemed appropriate and beneficial. Likewise, to achieve his mission, each member of the outreach committee, could be help by other scientists through the existence of transient subcommittees.

The term of the office should be four years for the Chair of the Outreach Committee. At the end of his term, the chair shall make recommendations to the IMA President regarding which committee members are ready for chairing the Outreach Committee, and recommend a new chair. Should there is no suitable candidates within the committee, the chair shall make a recommendation from outside the current committee. The outgoing chair could serve one additional year as the past chair.

### **Relations to the IMA Council**

The Outreach Committee Chairs will advise the IMA Council on Outreach issues and submit a biannual report to the IMA secretary, one at the fall of the year to be included in the IMA annual report, the second prior to the IMA Council Meeting.

If the Outreach Committee wishes to make a recommendation which requires a vote of the council, in addition to the biannual report, the Outreach Committee should submit to the IMA secretary a statement of the proposed motion and one or two paragraph stating why the motion should be passed. Motions and supporting documentation should be submitted three weeks before the Council Meeting.

### **Meetings**

The Outreach Committee will meet at least once a year. The committee will meet as necessary by electronic mails and telephone conference calls.

**Item 7 - Report of the IMA sub-committee on IMA Database of Mineral Properties -**  
- Mineral List Sub-Committee, 2008 -  
<http://www.ima-mineralogy.org/OutreachCommittee/outreachsubcomDMP.html>

Current members of the committee include:

Marco Ciriotti  
Robert Downs (chair)  
Frédéric Hatert  
Pat Mooney  
Ernie Nickel

A website exists, located at [www.ruff.info/ima](http://www.ruff.info/ima), that interactively displays the list of all the IMA CNMNC minerals recognized as valid species with accessory information and links. It is actually a database and JAVA program that is downloaded and used through a browser. The site, as a whole, receives about 100,000 queries per week. The duties of the IMA Mineral List Committee include managing the content of this website and its functions. A professional programmer is funded by the RRUFF project to write the computer code for the website. The emphasis over the past year includes items discussed below.

1. Managing the definitive list of mineral names and their chemical compositions. Our highest priority is to ensure that this information is perfect. The effort primarily involves two components, a) identifying new mineral information, b) keeping track of changes to the existing minerals. The most difficult aspect of these two components is finding the information. Changes to the database are easily accomplished and only take a few moments to complete. New mineral information is found at the CNMNC website in the form of PDF documents that are posted from time to time. The CNMNC document includes IMA approval number and sufficient information to permit matching the approval number with the publication of the description paper. It is stated that the CNMNC document represents the last action of the commission: "NO OTHER INFORMATION WILL BE RELEASED BY THE COMMISSION". There does not appear to be an IMA mechanism for identifying and determining when the papers are published, and this seems to depend on extensive searching and a component of luck. Ciriotti and Mooney play important roles in this task. A mechanism should be established to aid in publication tracking.

Keeping track of changes to existing minerals is much more difficult. At the moment it is largely accomplished through Ernie Nickel's PDF documents that are posted at the CNMNC website, and discussions primarily between Hatert, Downs and Nickel. This method is not very efficient and requires an enormous effort by all involved. Downs spends a significant time each day comparing the existing IMA mineral list against Nickel's document, identifying differences, and searching the literature for the documentation that support the changes. When doubt arises, then Hatert and Nickel are consulted. There is no doubt that the effort that Nickel puts into his document is also enormous, and currently there is duplication of effort.

In regards to the list of names and their spelling, the IMA mineral list can be considered up-to-date and accurate in that the posted chemical formulas are in agreement with the Nickel document. However, there are a significant number of scientific errors in these "official" chemical formulas that are difficult to discover. In the next year, software will be created to analyze all the chemical formulas for charge balance problems, and the formulas that violate charge balance will be examined and corrected when possible. This is probably the best that the committee can do to ensure that the list of minerals is scientifically accurate.

2. A goal of the committee is to identify the original descriptive articles for each mineral, and obtain and post the associated PDF. Copyright laws permit the posting of literature without permission if the literature is older than 72 years. In addition, a concerted effort has been made to obtain permission from the publishers to post the PDFs for free and open access. Permission has been obtained from the journals of several of the mineral societies, including the American, British, Canadian, Italian, Japanese, and Russian. In addition, *Zeitschrift für Kristallographie*, *Gems & Gemology*, *Meteoritics & Planetary Sciences*, *The Mineralogical Record*, and *New Data on Minerals* have given permission. MSA reports that journal downloads increased by 500-600% after posting our scanned PDFs. Unfortunately, two major mineralogical journals, the *European Journal of Mineralogy* and *Neues Jahrbuch für Mineralogie (Monatshefte and Abhandlungen)*, have declined to participate. The solution, for these three journals, at the moment, is to link only the PDFs of the free abstracts. In addition, it is a goal that each change to the database and each piece of data include a citation and its PDF when possible. All members of the committee contribute to this component of the mineral list. Ciriotti, with his own resourceful "system alert" methods found by experimentation over the course of many years, daily examines and controls a significant number of published papers that



contain changes (mainly structural, crystal-chemical, IR and Raman studies) in mineral species, mineral groups, and nomenclature. Starting July 2008, he will immediately communicate all the news to RRUFF, in form of PDF or abstracts or, in a limited number of cases, just as references, highlighting the most important results.

3. The ability to group minerals into various classification schemes is important. To this end the website has invoked the web-design concept of tags. For instance, a tag of "rock-forming minerals" has been created, and the minerals that are considered rock-forming (according to Deer, Howie and Zussman) are given that tag. It is relatively simple to identify minerals with the same tags, and minerals with various tags can be combined through logical operations. For example, rock-forming minerals that are amphiboles can be easily identified. The mineral groups of the 2008 edition of Fleischer have been entered into the database, and the Strunz tables are currently being added. In addition, Downs and Ciriotti are undertaking a grouping of isostructural minerals. A list of biominerals has been created. Most of this effort is currently being done by Mooney, Ciriotti and Downs.

Additional goals for the next year include:

- A. Get others involved! Now that the mineral names are correct and the contents of the list stabilized, it is now time to get others involved so that the database gets used by various groups. The IMA commissions could actively participate in this part of the project with their own data. For example, the Commission on Museums recently created a list of type localities for minerals that is posted in several large PDFs. This database could be associated with the mineral list, but still managed entirely by the Commission on Museums. Perhaps the meteorite group could produce and manage a list of minerals found in meteorites, and their important properties. Following recent discussions on the MSA list server, Downs is meeting with Dave Hirsch at the Goldschmidt meeting to determine if Hirsch can build a database of optical properties modeled after the contents of the Troeger Tables, with search/match capability through the IMA mineral list.
- B. Streamline the access to the database so that other websites and individuals can make optimal use of it. Right now there is a means to download data in an Excel file or as a Microsoft Word dictionary. There are links to the Handbook of Mineralogy, AMCSD, RRUFF, MINDAT and WEBMIN. A set of more primitive protocols should be constructed so that these other databases can interact with the IMA mineral list in a more seamless way.

---

## Item 8 - List of 2008 meetings, Workshops and Short courses with the participation of IMA Commissions and Working Groups

<http://www.ima-mineralogy.org/meetings.html>

### 8.1 - Organizations of scientific sessions in meetings

#### (1) 33rd IGC Meeting in Oslo: List of sessions

##### MPM Mineralogy

###### MPM-01 General contributions to mineralogy *Kari Kojonen, Chris Stanley (IMA)*

This session is meant for various fields of the science of mineralogy dealing with naturally occurring elements and compounds, especially those which are not represented by some other symposium in the IGC 2008. These could include: New minerals species; Minerals in the human body; Toxic minerals; Minerals and health; Intelligent minerals; Energy minerals; Minerals for new materials; ColTan minerals; Ore minerals; Industrial minerals; Strategic minerals; Physical properties of minerals; Crystal structure of minerals; Modern analytical methods of minerals.

###### MPM-02 Frontiers in quartz research: The genesis, crystal chemistry and economic importance of igneous, metamorphic and hydrothermal SiO<sub>2</sub>-polymorphs *Peter M. Ihlen, Rune B. Larsen, Axel Müller*

Although quartz is a major constituent of the Earth's crust, relatively few attempts were made to use quartz for petrogenetic interpretations because the textures, the trace element concentration and lattice position were poorly resolved by common analytical techniques. The emergence of better and more affordable in situ microprobe techniques, together with the improvement of conventional methods (SIMS, LA-ICP-MS, EMP, SEM-CL) over the past decade, has provided an avalanche of new data on textures and trace elements comprising quartz. These analytical advances allow for high precision estimates of the abundance of trace elements in quartz, the micro texture, e.g. growth zoning, recrystallisation, preferred crystal orientation and the structural characterisation of defect centres in the crystal lattice. Therefore, the igneous, metamorphic and hydrothermal petrogenesis of quartz, as well as the quality and formation of economic quartz deposits can be better constrained. Accordingly, quartz may become important in the perception of both rock- and mineral deposit-forming processes. The entire spectrum of Earth scientists working on SiO<sub>2</sub>-polymorphs are cordially invited to share their results at this session where we hope to define the frontiers of quartz research.

###### MPM-03 Metals in the Earth: From vital resource to environmental hazard *David Vaughan, Dogan Paktunc, Kari Kojonen (IMA)*

Mineral resources are crucial for sustaining quality of life and economic development. Extraction of metals from ores, however, poses risks to human health and ecology. Preventing and reducing adverse impacts of metals in the environment require a comprehensive understanding of the full metal cycle including both natural and industrial processes involved in the formation and distribution of minerals, extraction of metals and disposal of wastes. The symposium aims to explore the links between the fundamental and applied aspects of research dealing with minerals and metals in mineral exploration, metals extraction and disposal of wastes. In consideration of the fact that not only human activities but also natural processes concentrate and redistribute metals and modify their forms in the environment, the symposium also aims to discuss releases of metals from natural sources. This will also help to improve long-term predictions on metal releases from the wastes. Presentations will include the following topics: 1. Geochemistry and mineralogy of metallic mineral deposits emphasizing the distribution of hazardous or toxic elements such as Pb, Zn, Ni, Co, As, Cr, Hg, Pd and Pt. 2. Weathering of metallic mineral deposits and mineral-water interactions at the Earth's surface (e.g. water and soil contamination from natural sources). 3. Releases of metals during mineral processing (communitation, beneficiation, flotation) and extractive metallurgy (smelting and refining) operations. 4. Geochemistry and mineralogy of mining and metallurgical wastes (waste rock, tailings, sludge, effluents, acid mine drainage, hydrometallurgical residues, and dust and stack emissions) with emphasis on their stabilities. 5. Metals in the environment (background concentrations, natural vs.. anthropogenic

contributions, water, soil and air quality around mine and metallurgical sites, bioavailability, human health and ecological risk assessment). 6. Sustainable development.

**MPM-04 Platinum-group mineralogy** *Andy McDonald, Kari Kojonen (COM)*

Due to major advances in the technological applications of platinum-group elements, associated exploration programs have recently attracted incredible attention. Ironically, relatively little is known regarding the true chemical formulae, atomic arrangements and chemical diversity that exist amongst platinum-group minerals. This session is devoted to expanding our current knowledge base of the crystal-chemistry of PGM. It invites contributions from participants working on one or more of the many aspects involved in studying PGM: mineral synthesis, crystal-structure determination, chemical variation, new data on poorly described species and the characterization of potentially new PGM. All workers analyzing PGM from the myriad of possible geological environments (reef complexes, magmatic and hydrothermally altered deposits, placers, laterites, etc.) are welcome to provide submissions. The principle goal of this session is to provide a means by which individuals researching PGM, and those involved in their exploration and beneficiation, can be exposed to the current state-of-knowledge of this geologically, economically and technologically relevant mineral group.

**MPM-06 Melts and glasses in mineralogy and petrology** *Daniel Neuville et al. (IMA-CMP)*

Glasses and melts play an important role in the formation and evolution of the earth, as well as, in glass processing and for the storage of nuclear wastes. The structure and properties of glasses and silicates melts are becoming more well known but some aspects remain poorly understood; for example, the glass transition, and the relationship between short and medium range order. Contributions to this symposium are invited on diverse aspects of glasses and melts, in relation to properties, structure and dynamics.

**MPM-10 Fluids and melts in the Earth's mantle: From natural observation to HT-HP experiment** *Leonid L. Perchuk, Oleg G. Safonov (IMA-WGME)*

We expect contributions from researchers who provide petrological, geochemical, and experimental evidences for activity of alkaline deep-seated fluids and melts in the Earth's mantle. Presentations that describe evidences for alkalic silicate, carbonate-silicate, chloride-carbonate liquids from mantle xenoliths from basalts and kimberlites, as well as from diamond inclusions, are highly solicited. A special attention is to be paid to experimental studies of alkali-rich melts and fluids at the HP-HT conditions, including equilibria of mantle minerals with alkalic liquids, synthesis and stability of specific alkaline HP phases, partitioning of major, trace and volatile components between minerals, melts, and fluids, diamond growth in the melts, physical and mechanical properties of the alkalic liquids at the mantle conditions, etc. The symposium is directed to create a tool for better understanding of the deep-seated processes such as mantle metasomatism, which provoke kimberlitic and carbonatitic magmatism.

**MPM-11 Phase transformations and geodynamics** *Taras V. Gerya, Leonid L. Perchuk (IMA-WGME)*

Phase transformations and geodynamics are inherently interrelated. On the one hand all large scale geodynamic processes involve and are strongly affected by various phase transformations in the Earth's crust, mantle and core. On the other hand mineral reactions recorded by rocks are broadly used by petrologists for deciphering evolution of physical parameters (e.g. P-T-time-deformation paths) related to large scale geodynamic changes. Our intension is to organize a cross-disciplinary symposium involving observers, experimentalists and modelers in order to discuss three principal issues: 1. How phase transformations affect geodynamic processes at various depths and scales? 2. How natural observations and experimental data on phase transitions can be used for deciphering geodynamic evolution? 3. How can we include effects of phase transformations in numerical models of geodynamic processes and what can we gain out of this? We encourage contributions from petrologists, structural geologists, geophysicists and numerical modelers discussing recent advances and problems in linking phase transformations and geodynamics.

---

**MPM-12 New developments in microbeam techniques** *Jan Kosler, John Hanchar, Martin Whitehouse*

Recent advancements in microanalytical techniques, including SIMS, laser ablation ICP-MS, laser assisted gas source mass spectrometry, electron and x-ray microbeam analysis, have opened new possibilities to study elemental and isotopic variations with previously unmatched spatial resolution, detection capabilities and analytical precision. Contributions are sought both in analytical technique development and new applications of microbeam analysis, including elemental concentration measurements, analysis of radiogenic and stable isotopes and use of microbeam techniques for studying spatial variations in chemical and isotopic composition of geological and environmental materials.

**MPM-13 Inclusions in minerals** *Sergey Smirnov, Pei Ni, Matti Poutiainen (IMA-WGIM)*

Minerals contain a variety of different phases that were entrapped in the course of their formation and then isolated as inclusions. All of them can be divided into three groups: mineral inclusions, fluid, and melt inclusions. Recently they are believed to be an important source of geochemical and petrological information. They give to geologists an opportunity to trace past geological processes from the nano- and microscale up to the rock formation scale. As isolated phases the inclusions frequently bring geological information that was erased from rocks by later overprinting processes. In spite of the fact that the inclusions were studied for more than 150 years, they still trigger hot discussions on their origin, properties and importance. On the other hand they proved their importance in revealing P-T-X conditions of mineral and rock formation from the Earth mantle depths to the surface of the Earth and even in the Solar system. The session is addressed to those who deal with inclusions in minerals for reconstruction of geological processes - magma evolution, metamorphism, ore formation, sedimentary basin evolution, etc. We invite papers that are dedicated to advances of the inclusion microanalysis, thermodynamics of the fluid systems, paragenetic analysis, use of inclusions for oil, gas and ore prospecting, and experiments with inclusions in minerals.

**(2) Goldschmidt Conference :**

*Commission on Physics of Minerals -*

Session 07f: "Diffraction and absorption spectroscopies at high temperatures and pressures".

Synchrotron and neutron based spectroscopic and diffraction techniques have become routine for investigating minerals, glasses and liquids under extreme conditions (high temperature/pressure). We invite contributions on recent experimental work, as well as from those using numerical simulations or other spectroscopies at high temperatures and/or pressures.

Convenors: Grant Henderson, Daniel Neuville, Eiji Ohtani.

*Working Group on Environmental Mineralogy and Geochemistry* - The WGEMG organized a session on Mineralogy and Geochemistry of Metalliferous Mine Wastes in honor of John Jambor,

**(3) ICAM**

CAM acted as a co-sponsor of the ICAM 2008 meeting. Informations of sessions organized by the CAM are on the ICAM website.

**(4) 6th Mineralogy and Museums Conference (see the M&M website)**

**(5) ACROFI II, 12-14 November 2008, Haragpur India - WGIM was a sponsor of sessions**

Conference includes 67 oral presentations, 3 pre-conference and 1 post-conference field trips. Oral presentations are organized in 10 sessions: Fluids in metamorphism, Fluid in deformation of rocks, New techniques and PVTX relationships, Auriferous ore fluids, Ore fluids in Granite-Pegmatite environment, Fluid inclusions in mineral exploration, Fluid inclusions in ore environment (PGE, U, base metals), Fluid inclusions in ore environments (non metallic), Melt inclusions, Basinal fluids and hydrocarbon exploration.

Participants of this conference generally represent scientific communities of India, China, Russia, Australia and some important delegates from European countries.

(x) IUCr2008 in Osaka - Crystal growth session organized by the CMGIP, chaired by K. Tsikamoto and with J.L.Garcia Ruiz as the invited speaker.

## 8.2 Organizations of workshop and short courses

Workshop sponsored by the CAM - The Quantitative Mineralogy workshop organized by Dogan Paktunc during ICAM2008 brought together the experts and professionals in mineralogy, mineral processing and metallurgy for a review of the applications, current state, progress and challenges in the fast emerging field of quantitative mineralogy. The workshop culminated with an action plan addressing the key gaps and future needs in this field and establishment of a network of expertise in quantitative mineralogy.

### Short courses sponsored by the CAM

\* Eric Pirard organized a Short Course in Lima during March 24-28 2008. The course, taught in Spanish, attracted about 20 professionals active in the mining sector and demonstrated the major interest existing for advanced characterization tools in mineral exploration and processing.

\* Eric Pirard organized a short course entitled " Introduction to mineralogical image analysis: from 2D to 3D" during ICAM2008.

\* Maarten Broekmans organized a two-day short course titled "Introduction to characterization of concrete materials" at the Cockrell School of Engineering, University of Texas at Austin and another short course on the petrographic assessment of deleterious alkali-aggregate reaction (AAR) for the governmental Building and Construction Authority (BCA) Academy in Singapore.

## 8.3 Forthcoming meetings, workshops and short courses.

### Meetings

IMA General Meeting: COM has proposed four sessions for the 2010 IMA General meeting, CAM, 6, CPM and WGIM

2009 - WGSECE - A special symposium "Magma generation and evolution of global tectonics" - A symposium in honor of Peter J. Wyllie.

2009 AGU Spring meeting at Toronto, May: Daniel Neuvile will organize a glass and melt session.

SMEC Meeting, March-April 2009. Eiji Ohtani is organizing a core and core-mantle boundary session with Yingwei Fei of Geophysical Laboratory, CIW.

Japan Geoscience union (JPGU) annual meeting. It will be held at Makuhari, Chiba, Japan on 16-21<sup>th</sup>, May, 2009. CPM is organizing two sessions on Physics and Chemistry of Earth's Minerals, and one international session on dynamics of the Earth's interior.

### Workshops

CMGIP through JM Garcia Ruiz, will organize two workshops on "crystallization" in Granada, in 2009.

The Second Symposium on Interface Mineralogy will be held in Sendai in march 2009, being organized by the CMGIP.

WGSECE - Three workshops are planned (see the WGSECE report).

### Short courses

Nigel Cook reported on plans to hold a COM short course in India in November 2009.

COM short course in Leoben (Austria) dealing with mineralogy, geochemistry and ore deposits of Platinum group elements (possible date: from 28<sup>th</sup> August to 1<sup>st</sup> September 2010 - after the IMA General Meeting of Budapest) organized by Aberra Mogessie, Oskar Thalhammer and Federica Zaccarini.



#### 8.4 Holding of Business meeting

Commissions Working group	Meeting Localisation
Commission of Applied Mineralogy* (CAM)	ICAM 2008 Meeting, Brisbane, Australia Sept. 10, Sofitel hotel,
Commission of Mineral Growth and Interface Processes	Goldschmidt Conference, July 2008, Vancouver
Commission on Museums	M & M meeting, Golden, Colorado, USA, September 2008.
Commission on New Minerals, Nomenclature and Classification* (CNMNC)	M & M meeting, Golden, Colorado, USA, September 2008.
Commission on Ore Mineralogy	33rd IGC, Oslo
Commission on Physics of Minerals	33rd IGC, Oslo

\* Every two years during IMA General Meeting and M& M meetings



---

### Item 9 - Publication of the IMA Commissions and Working Groups

<http://www.ima-mineralogy.org/com-wg/CNMNC/1CNMNCpages/cnmnnpublishation.html>

<http://www.ima-mineralogy.org/specialpublication.html>

#### The 2008 publication of the CNMNC are:

Moelo, Y. et al. 2008\*: Sulfosalt Systematics: a Review. Report of the Sulfosalt Subcommittee of the IMA Commission on Ore Mineralogy. *European Journal of Mineralogy*, 20, 7–49.

Burke, E. A. J. 2008: Tidying up mineral names: an IMA-CNMNC scheme for suffixes, hyphens and diacritical marks. *Mineralogical Record*, 39, 131–135.

Hatert, F. and Burke, E. A.J. 2008: The IMA–CNMNC dominant-constituent rule revisited and extended. *Canadian Mineralogist*, 46, 717–728.

The aenigmatite subcommittee finalised their report in 2008 and it is currently in press.

\* This work was prepared also in the frame of the Commission on Ore Mineralogy.

#### Forthcoming publication of IMA Com-WG:

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

WGEMG - Plans are well in hand for a special publication arising from the 'Jambor Symposium' to be edited by Anne Thompson and David Vaughan. This will probably appear in 2009 as an issue, or part issue, of the journal 'Applied Geochemistry'.

## Item 10 - Publication in Elements

<http://www.ima-mineralogy.org/publielements.html>

**IMA news for Dec 08, Vol. 4, N°6**

**Photo: IMA\_Charles prewitt.**

### **Professor Charles Prewitt is the first IMA Medal winner**

The IMA is proud to announce that Professor Charles Prewitt of the Carnegie Institution has been designed as the First recipient of the IMA Medal for Excellence in Mineralogical Research. The IMA expressed their admiration for his research eminence in developing a wide variety of new fields in crystal chemistry, material sciences and mineral physics. In crystallography he was one of the pioneers in the use of the single-crystal diffractometer, creating computer programs to handle diffraction data and more recently in his use of synchrotron radiation for solving problems in mineral physics. In experimental techniques he was in the forefront of developing new methods in high-temperature and high-pressure mineral synthesis. Charles Prewitt has not only produced an enormous number of extraordinary publications of his own but he is responsible for directing much larger research projects on an international basis. Charles Prewitt will be presented with the award and give a lecture during the 2009 Goldschmidt Conference in Davos.

### **South Africa in 2014 for IMA and a new Working Group on Solid Earth Composition and Evolution**

IMA held two Council meetings and two wider participation Business Meetings during the 2008 Goldschmidt Conference in Vancouver. They discussed current IMA affairs and reviewed the activities of the IMA Commissions and Working Groups. Full details can be found on the IMA website. One highlight was the choice of South Africa as the venue for the 2014 General Meeting of IMA, hosted by the Mineralogical Society of South Africa (contact Sabine Verryn, [sabine.verryn@up.ac.za](mailto:sabine.verryn@up.ac.za)) Solid Earth Composition and Evolution – new IMA Working Group. Another was the creation of a new Working Group on Solid Earth Composition and Evolution. Its objectives are to encourage and promote collective effort through the international community using mineralogy, petrology and geochemistry of igneous and metamorphic rocks as a basic means, assisted by tectonic and geophysical methods, to understanding the origin and evolution of the solid Earth, including its mantle and crust on land and beneath ocean basins. The chair is Yaoling Niu ([yaoling.niu@durham.ac.uk](mailto:yaoling.niu@durham.ac.uk)), Vice-chair and Treasurer is Andrew Kerr and the Secretary is Ian Campbell.

Seventeen IMA officers of IMA Commissions and Working Groups were elected in Vancouver, including Lee Groat as chair of the Commission on Gem Materials and Peter Williams as chair of the Commission on New Minerals, Nomenclature and Classification. Peter Williams appointment had an exciting start with an 'outbreak' of much discussion of some recent controversial CNMNC decisions on MSA-Talk, the discussion list of the Mineralogical Society of America. Commissions sometimes complain they suffer from lack of interest and feedback, so it is good to hit the headlines once in a while. The CNMNC is considering the points that were raised.

There are a few situations vacant on some groups. The Commission on Museums and Working Group of Inclusions in Minerals need vice-chairmen and the Working Group on Mineral Equilibria also needs new officers.

For more details of the Council and Business meetings and a complete list of IMA commissions and working groups, including your national representatives, see [www.ima-mineralogy.org](http://www.ima-mineralogy.org)

### **New mineral lists**

A reminder, the lists of recently approved new minerals are now published on the CNMNC website at <http://pubsites.uws.edu.au/ima-cnmmc/recentmin.htm>, which is also accessible via the IMA main site if you want to avoid typing out this link. At the time of writing the latest list available is September 2008.

### **M+M6 Mineralogy and Museums Conference, Golden, Colorado, September 2008, a report from Pete Modreski**

[Two photos. IMA\_MM6 field trip.jpg and IMA\_MM6 group photo.jpg.

MM6 group on a field trip to pegmatites of the Pikes Peak batholith, taken outside the Pikes Peak Historical Society Museum, Florissant, Teller County, Colorado, Sept. 7, 2008; photograph courtesy of Ray Berry.



---

MM6 conference attendees at the Green Center, Colorado School of Mines campus, Golden, Colorado, Sept. 8, 2008. Photograph courtesy of Gary Baughman.]

The 6<sup>th</sup> International Conference on Mineralogy and Museums (M+M6) took place on the Colorado School of Mines campus in Golden, Colorado, September 7-9. Some 90 persons from 16 countries attended, representing Australia, Belgium, Brazil, Canada, China, France, Germany, Hungary, Italy, Japan, Mexico, Norway, Romania, Russia, UK, and the USA. Two days of technical sessions included some 32 oral and 28 poster papers. Field excursions took place to the mining town of Leadville; to **view** granite pegmatites in the Pikes Peak batholith near Florissant; and to the Sloan diamond-bearing kimberlite pipe in the Colorado-Wyoming State Line kimberlite district. Other events included an opening reception at the Colorado School of Mines Geology Museum; the poster session and reception hosted by the Society of Mineral Museum Professionals; and a closing banquet and museum tour sponsored by the Denver Museum of Nature and Science. The weekend following the conference was the Denver Gem and Mineral Show, one of the worlds largest such events, and many conference participants chose to stay to attend it and brought exhibits from their institutions.

During the conference, committee meetings were also held of the IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) and of the IMA Commission on Museums. Previous M+M meetings have taken place in Paris (2004), Melbourne (2000), Budapest (1996), Toronto (1992) and London (1988). Possible sites for the next, 2012, M+M meeting were discussed, including Dresden (a presentation was made by Renate Schumacher, Bonn, about how a meeting there could include tours of mineral museums throughout southern and northern Germany) and Edinburgh; decisions about the next M+M meeting will be made at the 2010 IMA meeting in Budapest.

I'll describe some of the highlights of the conference as developed in the oral presentations. One recurrent theme related to the varied challenges faced by mineral museums and ways in which these challenges are being met. These included: the difficulties, and advice about, moving a collection (Paul Carr and Penny Williamson, Wollongong); sources of potential damage to collections, physical (Jean DeMouthe, California Academy of Sciences) and chemical (Chris Tacker, North Carolina Museum of Natural Sciences); creative ways to build a constituency to support and finance small museums (Virgil Lueth, New Mexico Tech, and Anton Chakhmouradian, Winnipeg); plans to modernize and revitalize the Royal Museum of Scotland (Vicen Carrio, Edinburgh); and no less a project than working to reestablish the Afghan Geological Survey Museum (Brian Jackson, Edinburgh). Online curation and databases were discussed by Carl Francis (Harvard) and George Harlow (New York). Uses of historic and modern collections for research and the other *raisons d'être* of a museum were described by Peter Downs (Perth; the Argyle Diamonds Pink Diamond Collection); Mark Mauthner (Gemological Institute of America; the Edward J. Gubelin Memorial Gem Database); Lin Sutherland (Sydney; describing the Barrington ruby project); Lidia Trushnina (Boulder, Colorado, speaking about the Natural History Museum in Magadan); and Renato Pagano (Milan; describing the Camillo Gualteroni collection). Francois Farges (Paris) described new studies bearing on the history of the Hope/French Blue diamond.

Field trips, and their relation to museums, were discussed by Renate Schumacher (building stones in Bonn) and Maria Alferova (Moscow; field trips to Baikal and Transbaikal). Historical aspects of mineral studies, and of mineral nomenclature, were discussed by Lydie Touret (Paris; exploring connections between the development of mineralogy in North America and Europe); and Erzsébet Tóth (Budapest; discussing the historical evolution of celadonite and glauconite). Several papers addressed current issues in mineral nomenclature, and others dealt with novel aspects of unusual mineral occurrences. One paper that I found particularly insightful was the presentation by Igor Pekov (Moscow State University) on "Amazing new minerals: freak of nature or the key for solution of nature's enigmas?" in which he pointed out lessons, connections, and insights from the chemistry, structure, and environment of occurrence of a number of newly discovered mineral species.

The titles of all papers given at the conference are available on the M+M6 conference website, [http://www.mines.edu/outreach/cont\\_ed/ICMM6/](http://www.mines.edu/outreach/cont_ed/ICMM6/)  
Pete Modreski, USGS, Denver, Colorado; [pmodreski@usgs.gov](mailto:pmodreski@usgs.gov)

---

**item 11 - Agendas of Council and Business meetings in Vancouver (July 2008)**

<http://www.ima-mineralogy.org/businessmeetings.html>

Final agenda of the two Council meetings

1. Opening and Welcome
2. Approval of the Agenda
3. Administrative matters
  - Approval of minutes of the Council Meeting in Cambridge, England
  - Information from EMU and IUGS
4. Executive committee's reports
5. The medal committee proposal for the first IMA medallist
6. Future meetings
  - IMA 2010 General Meeting in Budapest
  - IMA 2014 General Meeting (Brazil, South Africa and India)
  - IMA 2009 Council meeting
7. The RRUFF project - Mineral database
8. The outreach committee
  - IMA communication
  - Elements
  - IMA website
9. Commission and Working Group evolution
10. Creation of a new Working group on "Solid Earth Composition and Evolution"
11. IMA constitution : Proposal for the executive members
12. IMA archives
13. Closure of the meeting.

Final agenda of the first Business meetings

1. Welcome by President Takamitsu Yamanaka
2. Roll call of the Delegates
3. Approval of the Business Meetings in Kobe, July 2006
4. Appointment of the Auditing Committee (Constitution, Article 5c)
5. Reports of the Executive officers
6. Designation of the first IMA Medallist
7. Future meetings
  - 7.1 - 20th IMA General Meeting in Budapest, Hungary (2010): Bonds and Bridges. Mineral Sciences and their applications: Invitation by four mineralogical societies
  - 7.2 - 21th General Meeting (2014) - Proposals from India and South Africa
8. Other Business
9. Closing by President Takamitsu Yamanaka

Final Agenda of the second business meeting

1. Welcome by President Takamitsu Yamanaka
2. Roll call of the Delegates
3. Report of the Auditing Committee
4. Election of Officers for some Commissions and Working Groups
5. Voting on the place of the 22th General Meeting of IMA in 2014
6. Other Business
7. Closing by the President Takamitsu Yamanaka.



---

## Item 12 - Commission on New Minerals, Nomenclature and Classification

### 2008 Interim Report to IMA Council

July 13, 2008

(Prepared by IMA Council Correspondent, Joel Grice in conjunction with Bill Birch CNMNC Secretary)

#### Officers and Members:

There are two major changes to the list of officers: *Chairman*: Peter Williams (University of Western Sydney) to begin September 1 replaces Ernst Burke (Vrije University) after 6 years. The WEB site has already been set up in Sydney for a smooth transfer.

*Secretary*: Stuart Mills (University of British Columbia) to begin September 1 replaces Bill Birch (Museum of Victoria) after 10 years.

Ole Johnsen (Denmark Member) has retired and no replacement has been found yet<sup>1</sup>.

It is very difficult to find officers for this commission due to the huge amount of work associated with each individual placement.

#### Business Meeting:

The CNMNC plans to hold a business meeting at the 6<sup>th</sup> Mineralogy and Museums conference in Golden, Colorado, in September 2008.

#### Activities: January 2008 to present:

1. New mineral proposals: 25 submissions to the end of May 2008.
2. Discreditations and name changes: 8 proposals to the end of April 2008.
3. Draft Classification Proposal 01 to standardize mineral groups. Deadline for comments is 31 May 2008.
4. Nomenclature of mineral groups: (a) tourmaline group, deadline for comments 28 February 2008; final report close to resubmission for voting by members (b) lovozerite group, deadline for comments 28 February 2008; this report has been withdrawn and a new subcommittee established (c) sapphire and surinamite groups, deadline for voting: 30 June 2008.

#### CONCERNS

Archiving: There are some 30 boxes of files containing the correspondence regarding new mineral proposals (25 in Ottawa, 5 in Amsterdam). In addition there are more boxes with the present Secretary regarding groups and Commission proceedings.

***This Commission continues to operate at maximum efficiency with matchless enthusiasm.***

---

<sup>1</sup> Ole Johnsen is replaced by Alfons Berger (information from F. hatert 25-11-2008)



---

Item 13 - CAM report for 2008

**IMA**  
**Commission on Applied Mineralogy**  
**(CAM)**  
**2008 Annual Report to IUGS**

---

<http://www.ima-mineralogy.org/com-wg/CAM/CAM.html>

**1. Title of Commission:**

Commission on Applied Mineralogy (CAM)

Current Officers:

Chairman: Dogan Paktunc

Vice-Chairman: Eric Pirard

Secretary: (vacant)

Past-Chair: Richard Hagni

Sub-commission Chair (Building Materials): Maarten Broekmans

Sub-commission Chair (Cultural Heritage and Archaeological Materials): Isabella Memmi

Sub-commission Chair (Advanced Ceramics and Glasses): Hans-Joachim Kleebe

Reporter:

Dogan Paktunc

**2. Objectives:**

Vision: To provide leadership in knowledge sharing for the broad range of applied mineralogy fields and to offer means for professional development for applied mineralogists. Mission: To build and sustain a strong commission that provides value to its members in alignment with the IMA's vision.

CAM's interest areas cover a full spectrum of applied mineralogy activities in extractive metallurgy, mineral exploration and mine development, building materials, ceramics, glasses, preservation of cultural heritage and archaeological materials, disposal of mine and industrial wastes, and development of advanced characterization techniques.

**3. Business Meeting held during 2008:**

A business meeting was held on Sep 10, 2008 (Wednesday) from 5:00 to 6:00 pm at the Sofitel Hotel, Brisbane (Australia) during ICAM 2008 meeting. In attendance were Ying Gu (AU), Deshenthree Chetty (ZA), Ralph Holmes (AU), David Steele (AU), Reiner Neumann (BR), Henrique Kahn (BR), Maarten Broekmans (NO), Kari Kojonen (FI), Jan Elsen (BE), Alan Butcher (AU), Richard Hagni (US), Eric Pirard (BE), Dogan Paktunc (CA).

**4. Interface with other International organizations:**

Isabella Memmi involved in the organization of the 37th International Symposium on Archaeometry (ISA2008) in Siena, May 12-16, 2008. Symposium was a great success with participants over 500. She is presently the editor of the Symposium Proceedings which will be published by Springer as an e-book.

Isabella Memmi is member of the Organizing Committee of the 16th Meeting of Association of European Geological Societies: Geology for society: education and cultural heritage. The meeting will be held in Cluj-Napoca, Romania 9 - 13 July 2009. She is also the convenor of the session on geoarchaeology and archaeometry.

Maarten Broekmans has been editor in chief of the 13th Intl Conference on Alkali Aggregate Reaction Concrete, 16-20 June 2008 in Trondheim. A special issue in Cement & Concrete research is scheduled for publication in April 2009

#### ICAM:

CAM as a co-sponsor of the ICAM 2008 meeting has continued to closely work with ICAM executive on the planning of the 9<sup>th</sup> International Congress on Applied Mineralogy (ICAM 2008) in Brisbane, Australia. This included the role Dogan Paktunc played as the acting vice president of ICAM2008 for the appointment of Ying Gu as the interim vice president of ICAM2008.

ICAM meetings will be held once every three years instead of four.

In order to improve communications between ICAM and CAM, Jan Elsen has been elected CAM Coordinator of ICAM.

Next ICAM meeting will be held in 2011 in Trondheim, Norway under the leadership of Maarten Broekmans who is CAM's sub-commission chair on building materials.

#### **5. Chief accomplishments in 2008:**

IMA-CAM has participated in the organizational activities of ICAM2008 including appointment of the new chair, decisions for the frequency of ICAM meetings and the place of next ICAM meeting, organization of three short courses and several sessions for ICAM 2008 meeting in Brisbane, Australia.

In collaboration with WGEM and COM, a symposium entitled "Metals in the Earth: from vital resource to environmental hazard" was organized during IGC 2008 in Oslo.

In order to bring improved functionality to the commission, a draft "terms of reference" was prepared for discussion. The document outlines the purpose, management structure, and roles and responsibilities of the executive committee members of CAM.

Henrique Khan who has been the commission secretary for many years has decided to step down. CAM is currently seeking nominations for the secretary position.

#### Short Courses (organized and sponsored by CAM):

Eric Pirard organized a Short Course in Lima during March 24-28 2008 with financial support from Commissariat Général aux Relations Internationales de la Communauté Française de Belgique (CGRI), Pontificia Universidad Católica del Perú (PUCP) and Servicio Geológico y Minero del Perú (InGeMMet). The course, taught in Spanish, attracted about 20 professionals active in the mining sector and demonstrated the major interest existing for advanced characterization tools in mineral exploration and processing.

Eric Pirard organized a short course entitled "Introduction to mineralogical image analysis: from 2D to 3D" during ICAM2008.

Maarten Broekmans organized a two-day short course titled "Introduction to characterization of concrete materials" at the Cockrell School of Engineering, University of Texas at Austin and another short course on the petrographic assessment of deleterious alkali-aggregate reaction (AAR) for the governmental Building and Construction Authority (BCA) Academy in Singapore.

The Quantitative Mineralogy workshop organized by Dogan Paktunc during ICAM2008 brought together the experts and professionals in mineralogy, mineral processing and metallurgy for a review of the applications, current state, progress and challenges in the fast emerging field of quantitative mineralogy. The workshop culminated with an action plan addressing the key gaps and future needs in this field and establishment of a network of expertise in quantitative mineralogy.

#### **6. Chief Problem Encountered in 2008:**

The list of National Representatives requires an update. Because the national representatives are designated by the member societies of IMA, the commission has no control over the list which limits CAM's outreach activities in promoting Applied Mineralogy in some of the member countries.

Unavailability of a functional website has continued to create difficulties for communications and membership activities.

#### **7. Workplan for 2009 and beyond:**

IMA-CAM has proposed to organize 6 scientific sessions during the 20<sup>th</sup> General Meeting of IMA (IMA2010) in Budapest: Process mineralogy; Cultural heritage and archaeological materials; Building materials; Environmental mineralogy and geochemistry of mine and metallurgical wastes (co-organized with IMA-WGEM); Ceramics and advanced materials; Biomaterials/minerals.

CAM plans to lead and coordinate the development of reference and standard materials for quantitative mineralogy.

#### **8. National Representatives:**

Austria - Dr. V. Kahlenberg  
Belgium - Prof. Jan Elsen  
Bulgaria - Dr. Ivan Dontchev  
Canada - Dr. William Petruk  
Denmark - Dr. Tonci Balic-Zunic  
Egypt - Professor Mohamed A. Mandour  
Finland - Dr. Kari Kojonen  
France - Dr. Georges Calas  
Germany - Prof. Dr. Robert B. Heimann  
India - Dr. J. N. Bhadra Chaudhri  
Italy - Maria Franca Brigatti  
Japan – Prof. Tadato Mizota  
Netherlands - Dr. T.G. Nijland  
New Zealand - Dr. J. L. Mauk  
Romania - Dr. Gheorghe Damian  
Russia - Professor V. M. Bzoitko  
South Africa - Ms D. Chetty  
Spain - Professor E. Galan  
Sweden - Prof. Ulf Halenius  
Switzerland - Prof. Bernard Grobéty  
United Kingdom - Dr. John F. W. Bowles  
United States - H. Catherine W. Skinner



Item 14 - CMGIP report for 2008

**IMA**  
**Commission on Mineral Growth and Interface Processes**  
**(CMGIP)**  
**2008 Annual Report to IUGS**

<http://www.ima-mineralogy.org/com-wg/CMGIP/CMGIP.html>

Officers

- Katsuo Tsukamoto (Professor, Tohoku University, Japan) chairperson
- Andreas Lutge (Professor, Rice University, Texas) vice-chairperson
- Jeanne Paquette (Associate Professor, McGill University, Canada) secretary

Corresponding member in the council: Walter Maresch

SCOPE

The scope of the CMGIP commission is to bring together experts in crystal growth and geoscientists interested in the rich range of phenomena associated with mineral crystallization and dissolution processes in nature. Although there has been interaction between the "crystal growth community" and geoscientists in the past, there is still a strong demand to strengthen and employ the most modern tools for "in situ" observation of these process and advanced ideas if we are to advance our understanding of these processes. Three major categories may be classified: (1) Interface phenomena on the molecular level, (2) mineral texture formation, (3) crystallization and dissolution mechanisms and (4) novel "in situ" techniques to visualize the process of nucleation and crystal growth.

Report of Activity in 2008

1. The 2<sup>nd</sup> Interface Mineralogy was planned to be held in Sendai in March 2009, as an extension of the 1<sup>st</sup> symposium ([http://www.ganko.tohoku.ac.jp/shigen/tsukamoto/conference/Interface\\_mineralogy/index.html](http://www.ganko.tohoku.ac.jp/shigen/tsukamoto/conference/Interface_mineralogy/index.html)). Tsukamoto and Putnis will organize this symposium, which will be sponsored by Global Education and Research Center for Earth and Planetary Dynamics (GCOE), Tohoku University.
2. We collaborate with the commission of General Mineralogy to organize the session of General Contribution to Mineralogy, at IGC, Oslo. Tsukamoto acted as a keynote speaker and some of the CMGIP members successfully contributed to the session.
3. Andrew Putnis (U. Muenster, Germany) acted as liaison with the IGC 2008 meeting (Oslo) and organize a session on crystal growth.
4. Although no special sessions were held in the Goldschmidt conferences (2007) in Cologne, Germany, August 19-24, under the theme "Atoms to Planets", there were many young participants from many countries. Business meeting was held during the conference.
5. CMGIP. It should be noted that many students also attended from Japan.
6. CMGIP suggested J. M. Garcia Ruiz as the plenary speaker for crystal growth session at IUCr2008 in Osaka. The session was chaired by Tsukamoto. Tough discussion was made during the conference due to many contributions from wide area of crystal growth.
7. The 1<sup>st</sup> international workshop on "Crystallization in The Solar System 4.6 Billion Years Ago" will be held in Tohoku University on 19-20 November 2008. CMGIP is the co-sponsor of this workshop. This is the first approach for CMGIP to collaborate with scientists in astronomy and space science.

Related topics:

J. M. Garcia Ruiz will organize two workshops on "crystallization" in Granada in 2009. (<http://lafactoria.lec.csic.es/iscgranada>)( <http://www.isbcgranada.org/>)

For complete address, see the CMGIP report on the IMA website



---

CMGIP officers

**Chairman:**

Katsuo Tsukamoto, Email: [ktsuka@m.tains.tohoku.ac.jp](mailto:ktsuka@m.tains.tohoku.ac.jp)

**Vice-chairman:**

Andreas Lüttge, E-MAIL: [aluttge@rice.edu](mailto:aluttge@rice.edu)

**Secretary:**

Jeanne Paquette, Email: [jeanep@eps.mcgill.ca](mailto:jeanep@eps.mcgill.ca)

LIST OF CMGIP MEMBERS

**AUSTRIA** : Prof. Dr. Martin Dietzel, Email: [dietzel@egam.tugraz.at](mailto:dietzel@egam.tugraz.at)

**BULGARIA**: Dr. Ivan Bonev, Email: [bonev@geology.bas.bg](mailto:bonev@geology.bas.bg)

**CANADA**: Dr. Jeanne Paquette, Email: [jeanep@eps.mcgill.ca](mailto:jeanep@eps.mcgill.ca)

**DENMARK**: Prof. Susan Stipp, Email: [stipp@geol.ku.dk](mailto:stipp@geol.ku.dk)

**EGYPT**: Prof. Ali A. Omar, Email : [a-omar@thewayout.net](mailto:a-omar@thewayout.net)

**FRANCE**: Dr. Alain Baronnet, Email: [baronnet@crmc2.univ-mrs.fr](mailto:baronnet@crmc2.univ-mrs.fr)

**GERMANY**: Prof. Andrew Putnis, e-mail: [putnis@nwz.uni-muenster.de](mailto:putnis@nwz.uni-muenster.de)

**HUNGARY**: Prof. Mihály Pósfai, e-mail: [posfaim@almos.vein.hu](mailto:posfaim@almos.vein.hu)

**INDIA** : Prof. K. Byrappa, Email: [byrappak@yahoo.com](mailto:byrappak@yahoo.com)

**ITALY**: Prof. Eugenio Scandale

**JAPAN**: Prof. Katsuo Tsukamoto, Email: [ktsuka@m.tains.tohoku.ac.jp](mailto:ktsuka@m.tains.tohoku.ac.jp)

**THE NETHERLANDS**: Dr. Cornelis F. Woensdregt, Email: [woens@geo.uu.nl](mailto:woens@geo.uu.nl)

**NEW ZEALAND**: Prof. Dr. Rodney H Grapes, Email: [Rodney.Grapes@minpet.uni-freiburg.de](mailto:Rodney.Grapes@minpet.uni-freiburg.de)

**POLAND**: Prof. Eugeniusz Galuskin, Email: [galuskin@us.edu.pl](mailto:galuskin@us.edu.pl)

**RUSSIAN FEDERATION**: Prof. Arkady E. Glikin, Email: [km2001@ag2460.spb.edu](mailto:km2001@ag2460.spb.edu)

**SOUTH AFRICA**: Professor R. K. W. Merkle, Email: [rmerkle@postino.up.ac.za](mailto:rmerkle@postino.up.ac.za)

**SPAIN**: Prof. Dr. Manuel Prieto,





---

**Item 15 - CNMNC report for 2008**

**IMA**  
**Commission in New Minerals, Nomenclature and Classification**  
**(CNMNC)**  
**2008 Annual Report to IUGS**

---

**New address:** <http://pubsites.uws.edu.au/ima-cnmnc/>  
<http://www.ima-mineralogy.org/com-wg/CNMNC/1CNMNCpages/1CNMNC.html>

**Current Officers**

Chair : Peter (Pete) A. Williams  
Vice-chair (changes in existing nomenclature): Frédéric Hatert  
Vice-chair (general classification matters) : Marco Pasero  
Secretary: Stuart J. Mills

Corresponding member in the Council: Joël Grice  
(Prepared by the Secretary, Stuart Mills)

**1. COMMISSION ON NEW MINERALS, NOMENCLATURE AND CLASSIFICATION**

**Officers**

Chairman: Peter Williams (Sydney, Australia)  
Vice Chairmen: Frédéric Hatert (Liege, Belgium); Marco Pasero (Pisa, Italy).  
Secretary: Stuart Mills (Vancouver, Canada)

On September 1, 2008 Ernst A. J. Burke and William D. Birch retired from the Commission and a few weeks later Stanislav Filatov retired due to ill health.

**2. OVERALL OBJECTIVES**

This commission (CNMNC) was established in 1959 (under the former title of Commission on New Minerals and Mineral Names, or CNMMN) to deal with all nomenclature matters in mineralogy. Its main roles are to ensure that strict procedures are followed before new mineral species can be established and before redefinitions and changes to nomenclature can be applied. The CNMNC also coordinates the procedures for classification of minerals.

**3. ORGANISATION**

**Officers for 2008**

Officers are listed above and the full membership of CNMNC is given in 8 (below).

**Business meetings**

The CNMNC holds its business meetings every two years, when its members participate in IMA General Meetings and Mineralogy & Museums Conferences, each of which are held every four years. The CNMNC last met in Golden, Colorado in September 2008. The next meeting will be during the IMA General Meeting in 2010.

**Main activities**

The CNMNC partitions its workload amongst the four officers: the chairman prepares the new-mineral proposals, the vice-chairmen handle proposed changes to existing nomenclature (discretisations and redefinitions) and classification issues, and the secretary coordinates the subcommittees created to examine the nomenclature of mineral groups. Arrangements currently under discussion may result in some changes to the way the work is apportioned. The 28 voting members of the CNMNC represent national mineralogical

organisations affiliated with the IMA. The members evaluate all nomenclature proposals (new minerals, changes in existing minerals, mineral groups) and cast their votes on a monthly basis for the new-mineral proposals and as they come for the other proposals.

#### **Financial support**

The distribution of proposals and the subsequent rounds of comments and voting are carried out via the internet, so postage costs have largely been eliminated. The IMA covers the Chairman's costs for office supplies, while the costs of members' emailing and internet time are borne by their respective institutions.

#### **4. INVOLVEMENT WITH IMA AND INTERNATIONAL PROJECTS**

Vice Chairman Frédéric Hatert is currently a member of the IMA-OC (Outreach Committee).

#### **5. CHIEF ACCOMPLISHMENTS IN 2008**

##### **Activities**

By November 13 2008, the CNMNC will have dealt with 64 new-mineral proposals, which will most likely end up being ~70 and a slight increase on previous years (66 proposals in 2007; 63 proposals in 2006, 64 proposals in 2005; 59 in 2004). Members will also have deliberated on and approved five proposals involving mineral nomenclature revisions and are currently deliberating on a new proposal to extend historical naming and the suffix rule. The approval of revisions to the dominant-constituent rule was also a milestone of the year.

Seven CNMNC subcommittees were functioning during 2008:

1. Pyrochlore (Chairman: Daniel Atencio, Brazil – new Chairman)
2. Tourmaline (Chairman: Milan Novák, Czech Republic)
3. Alunite (Chairman: Peter Bayliss, Australia)
4. Amphibole (Chairpersons, Frank Hawthorne and Roberta Oberti, Canada)
5. Aenigmatite (Chairman: Ed Grew, USA)
6. Lovozerite (Chairman: Igor Pekov, Russia)
7. Apatite (Chairman: Marco Pasero, Italy)

The aenigmatite subcommittee finalised their report in 2008 and it is currently in press. Final drafts of both the tourmaline and lovozerite subcommittee reports have been prepared and are due to be voted on shortly. The amphibole report is expected to be sent to members in the New Year.

##### **Outreach**

The ex-Chairman and current Secretary regularly participate in discussion on minerals and their nomenclature in the Message Board of the website [www.mindat.org](http://www.mindat.org), a forum aimed at collectors and amateur mineralogists, but also used by professionals to discuss mineralogical issues.

Updated versions of the official IMA–CNMNC list of mineral names were uploaded onto the Commission's website, as well as newer versions of valid unnamed minerals, invalid unnamed minerals, and references for unnamed minerals.

Also published on the CNMNC website was a complete list of all CNMNC decisions made in 2007, as well as monthly summaries of the most recent new minerals approved by the Commission.

##### **Technical meetings**

No technical meetings were held in 2008.

##### **Publications**

Several papers dealing with decisions of the CNMNC were submitted for publication in the scientific literature during the year:

Moelo, Y. et al. 2008: Sulfosalt Systematics: a Review. Report of the Sulfosalt Subcommittee of the IMA Commission on Ore Mineralogy. *European Journal of Mineralogy*, 20, 7–49.

Burke, E. A. J. 2008: Tidying up mineral names: an IMA-CNMNC scheme for suffixes, hyphens and diacritical marks. *Mineralogical Record*, 39, 131–135.

Hatert, F. and Burke, E. A.J. 2008: The IMA–CNMNC dominant-constituent rule revisited and extended. *Canadian Mineralogist*, 46, 717–728.

## 6. PROBLEMS ENCOUNTERED IN 2008

Generally the work of the Commission proceeded smoothly in 2008. However, the office-bearers continue to be concerned about the low participation rate for some commission members. This seems to be an ongoing problem partly related to the heavy work load of the Commission.

The transition of office bearers in the Commission went smoothly as a few months overlap was initiated by the Chairman and Secretary.

In September (after the M&M6 conference), the issue of the CNMNC's role in nomenclature revisions came to the forefront via the MSA-Talk email-based forum. For some time, concern has been expressed, especially by some members of the Commission, over the loss of historical mineral names. This problem came to light recently when two different draft reports proposed to discredit historical mineral names that recognised prominent mineralogists in favour of suffix-based names. After lengthy discussions before and during the M&M6 conference, a proposal to extend historical priority and establish the "suffix synonym rule" was distributed to members for voting in October. The results will be known at the end of November 2008.

## 7. WORKPLAN FOR 2009

### Activities

It is anticipated that the number of new mineral proposals, nomenclature revisions and discreditations will rise slightly in 2009. This is mostly due to the current subcommittees nearing completion. It is hoped that most if not all of the subcommittees will have submitted a draft report, or their final reports will have been voted on, by the end of 2009.

## 8. OFFICERS AND NATIONAL REPRESENTATIVES

### Officers

**Peter (Pete) A. Williams, Chairman (From 1 September 2008)**

[p.williams@uws.edu.au](mailto:p.williams@uws.edu.au)

**Frédéric Hatert, Vice-Chairman (changes in existing nomenclature)**

[fhater@ulg.ac.be](mailto:fhater@ulg.ac.be)

**Marco Pasero, Vice-Chairman (general classification matters from 15 September 2008)**

[pasero@dst.unipi.it](mailto:pasero@dst.unipi.it)

**Stuart J. Mills, Secretary (From 1 September 2008)**

[smills@eos.ubc.ca](mailto:smills@eos.ubc.ca)

### Chairmen Emeritus

**Ernst A.J. Burke (Chairman 2003-August 2008)**

[ernst.burke@xs4all.nl](mailto:ernst.burke@xs4all.nl)

**Joel D. Grice (Chairman 1995-2002)**

[jgrice@mus-nature.ca](mailto:jgrice@mus-nature.ca)



---

## Akira Kato (Chairman 1975-1982)

### Members

Daniel Atencio [datencio@usp.br](mailto:datencio@usp.br)  
Vladimir Bermanec [vberman@public.carnet.hr](mailto:vberman@public.carnet.hr)  
Elena Bonaccorsi [elena@dst.unipi.it](mailto:elena@dst.unipi.it)  
Andrei G. Bulakh [andreygleb@mail.ru](mailto:andreygleb@mail.ru)  
Andrew G. Christy [andrew.christy@anu.edu.au](mailto:andrew.christy@anu.edu.au)  
Mohamed A. El-Sharkawy [maelsharkawi@yahoo.com](mailto:maelsharkawi@yahoo.com)  
**T. Scott Ercit** [sercit@mus-nature.ca](mailto:sercit@mus-nature.ca)  
André-Mathieu Fransolet [amfransolet@ulg.ac.be](mailto:amfransolet@ulg.ac.be)  
Stefan Graeser [Stefan.Graeser@unibas.ch](mailto:Stefan.Graeser@unibas.ch)  
Ulf Hålenius [ulf.halenius@nrm.se](mailto:ulf.halenius@nrm.se)  
Alfons Berger [Ab@geo.ku.dk](mailto:Ab@geo.ku.dk)  
Anthony R. Kampf [akampf@nhm.org](mailto:akampf@nhm.org)  
Paul Keller [paul.keller@mineralogie.uni-stuttgart.de](mailto:paul.keller@mineralogie.uni-stuttgart.de)  
Andrzej Manecki [manecki@geol.agh.edu.pl](mailto:manecki@geol.agh.edu.pl)  
Satoshi Matsubara [matubara@kahaku.go.jp](mailto:matubara@kahaku.go.jp)  
**Jeffery Mauk** [j.mauk@auckland.ac.nz](mailto:j.mauk@auckland.ac.nz)  
**Gabor Papp** [pappmin@ludens.elte.hu](mailto:pappmin@ludens.elte.hu)  
Gian Carlo Parodi [gcparodi@mnhn.fr](mailto:gcparodi@mnhn.fr)  
**Franz Pertlik** [franz.pertlik@univie.ac.at](mailto:franz.pertlik@univie.ac.at)  
**Gunnar Raade** [gunn-ra@online.no](mailto:gunn-ra@online.no)  
**Jiri Sejkora** [jiri.sejkora@nm.cz](mailto:jiri.sejkora@nm.cz)  
**Chris J. Stanley** [c.stanley@nhm.ac.uk](mailto:c.stanley@nhm.ac.uk)  
Ragnar Törnroos [ragnar.tornroos@helsinki.fi](mailto:ragnar.tornroos@helsinki.fi)  
**Gheorghe Udubasa** [udubasa@geo.edu.ro](mailto:udubasa@geo.edu.ro)  
**Pavel Uher** [puher@fns.uniba.sk](mailto:puher@fns.uniba.sk)  
**Nicolás Velilla Sánchez** [velilla@ugr.es](mailto:velilla@ugr.es)  
Sabine M.C. Verryn [sabine.verryn@up.ac.za](mailto:sabine.verryn@up.ac.za)  
Zuxiang Yu [yuzuxiang001@163.com](mailto:yuzuxiang001@163.com)



---

**Item 16 - COM report for 2008**

**IMA  
Commission on Ore Mineralogy  
(COM)  
2008 Annual Report to IUGS**

---

<http://www.gsf.fi/domestic/com/ima-com.htm>

<http://www.ima-mineralogy.org/com-wg/COM/COM.html>

**Current Officers**

Chair : Nigel Cook, E-mail: [nigelc@nhm.uio.no](mailto:nigelc@nhm.uio.no)

Vice-chair : Kari Kojonen, E-mail: [kari.kojonen@gsf.fi](mailto:kari.kojonen@gsf.fi)

Secretary: Federica Zaccarini, E-mail: [Federica.Zaccarini@unileoben.ac.at](mailto:Federica.Zaccarini@unileoben.ac.at)

Corresponding member in the Council: Kari Kojonen

---

This report covers aspects of IMA-COM activities since the date of the last annual report (November 2007).

**COM Officials 2006-2010**

The following nominations of officials to serve COM in the period 2006-2010 were accepted at the IMA-COM Business meeting held during the IMA meeting in Kobe, Japan, July 2006:

Chairman: Nigel J. Cook [nigelc@nhm.uio.no](mailto:nigelc@nhm.uio.no)

Vice-Chairman: Kari K. Kojonen [kari.kojonen@gsf.fi](mailto:kari.kojonen@gsf.fi)

Federica Zaccarini was appointed as COM Secretary during 2007; [Federica.Zaccarini@unileoben.ac.at](mailto:Federica.Zaccarini@unileoben.ac.at)

**Objectives and activities of COM**

The Commission on Ore Mineralogy of the International Mineralogical Association was set up in 1962 to serve the interests of ore mineralogists in universities, research institutions, museums, and the minerals industry across the world. Our goals are to promote ore mineralogy within the scientific community, to train fellow members in investigative skills through a series of short courses, and to support the activities of other IMA commissions by providing advice and expert opinion on issues related to our fields of research. Through its regular short courses, regional meetings, scientific sessions, other symposia and field excursions, as well as its website, COM offers a platform to ore mineralogists to share their knowledge with others, exchange information, and to speak with a collective voice on issues that affect our branch of science. As one of the commissions of IMA, the COM supports the goals of international cooperation and collaborative research in pure and applied mineralogy.

**Financial support**

COM has no direct financial support for its activities. Limited financing for meeting participation has been possible via association with other groups, e.g., Applied Mineralogy Group of the Mineralogical Society (U.K.).

**Interface with IMA activities and other international projects**

COM participates in all major IMA events and interacts with other commissions, particularly CNMMN and CAM. COM is also enthusiastically involved in International Geoscience Project (IGCP) 486, with which it co-sponsored a session at the 32<sup>nd</sup> International Geological Congress (IGC). IMA-COM worked with the organizing committee of the 33<sup>rd</sup> IGC (2008) in the preparation of three scientific sessions at the conference.

## COM activities in 2008

The last business meeting took place during the 33<sup>rd</sup> IGC in Oslo. Minutes will be available on the commission webpage shortly: <http://www.gsf.fi/domestic/com/ima-com>.

During this meeting the decision to update the list of national representative was taken (see the appendix at the end of this report) and also to nominate Dr. Louis Cabri as an Honorary Member of the COM.

COM activity in 2008 has focussed on these scientific sessions organized for **33<sup>rd</sup> IGC-2008**:

1. 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

The following detailed and useful report on the session Platinum group mineralogy was compiled by Andy McDonald:

As part of 33<sup>rd</sup> International Geological Congress meeting held in Oslo, Norway (Aug. 6-14, 2008), the IMA-COM made its presence felt through a special session devoted to Platinum-Group Mineralogy (MPM-04), convened by Andy M. McDonald (Laurentian Univ.) and Kari Kojonen (Geological Survey of Finland). The session presented a unique opportunity to bring together international researchers involved in PGM research from a variety of vantage points, including crystallography, synthesis, geological setting, genesis, mineral beneficiation and isotopic analyses. In doing so, this special session created a unique forum in which to discuss this fascinating group of minerals from a variety of perspectives; as researchers, we tend to develop focused strengths in our own unique niches and being able to step beyond the confines of these 'boxes' opens up the doors to furthering the larger science behind PGM, the ultimate goal of the session. The session was financially supported by the Applied Mineralogy section of MinSoc and logistically, IMA-COM, via the Chair, Dr. Nigel Cook.

It spanned one entire day of the IGC and included 14 oral presentations and three posters. Two key-note speakers were invited. The first was Dr. Louis Cabri (Cabri Consulting, Inc.), who spoke on the challenges relating to the study of PGM distribution in ores, along with the respective analyses of PGE in these ores, highlighting some of the issues that are still outstanding (e.g., crystallography, extent of solid solution in specific series) when it comes to generating a complete understanding the genesis and distribution of PGM. The second was Dr. Malitch Kreshimir (All-Russia Geological Research Institute) who spoke on the application of Re-Os systematics to dating the origin of PGM, notably IPGM from mafic to ultramafic settings. By employing concrete examples, Dr. Kreshimir demonstrated how such an approach can provide fundamental data relating to the paragenesis of these minerals and at the same time, formulate new tools useful in the exploration of such ore deposits.

A large number of presentations focused on PGM from ophiolites and layered intrusions in the Dominican Republic (Zaccarini *et al.*), Brazil (Garuti *et al.*), Turkey (Uysal *et al.*), Bulgaria (Gervilla *et al.*) and New Caledonia (González-Jiménez *et al.*), reinforcing the concept that despite the highly geological and temporal settings for these lithologies, there are significant similarities in the PGM contained within them. Presentations were also made on PGM from mafic intrusions including those found in the Monchegorsk complex (Grokhovskaya) and the Fedorovo-Pansky intrusion (Subbotin *et al.*), Russia, along with those found in placer deposits from Northern Lapland (Konjonen *et al.*, Tornroos *et al.*). Finally, presentations were made on crystal chemistry of PGM from 'hydrothermally' remobilized components of ores in Sudbury (McDonald *et al.*) and for the synthesis of PGM using the silica-tube methods under moderate temperatures (Vymazalová *et al.*). Truly, an incredible range of presentations that covered a number of the diverse aspects relating to PGM. It is also notable that at the conclusion of the formal presentations, stimulating discussions involving the audience and presenters were held. These clearly highlighted the breadth of experience and knowledge available and the keen interest that so many researchers have for PGM. An extremely fitting conclusion to such a stimulating special session!

In conclusion, the key objectives of the special session on Platinum-Group mineralogy, to bring together those researchers with a keen interest in these minerals and to facilitate stimulating discussions on the many facets associated with them, were met. It is hoped that this session will be the catalyst for future meetings. To this end, it was noted that there are planned sessions that will build upon the focus and success of this meeting, including that dedicated to Platinum-Group Mineralogy and Automated Mineral Processing (Andy McDonald, International Platinum Symposium, June, 2010) and one dedicated to the analyses of PGM (An IMA-COM-sponsored short course in Leoben, Austria, organized by Aberra Mogessie, Federica Zaccarini and Oskar Thalhammer in September 2010). On behalf of the conveners, Drs. Andy M. McDonald and Kari Kojonen, we thank all who contributed to the incredible success of the special session on Platinum-Group Mineralogy and look forward to building upon its success.

IMA-COM has proposed the following session for the next **2010 IMA General Meeting** in Budapest. 'Automated Technologies in Ore Mineralogy' (Convenors: Roland Merkle, Alan Butcher and Hanna Horsch). These additional sessions have been also proposed 1) PGM (tied in to the Leoben workshop described below), 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.

**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.

#### **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.

#### **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).

---

## **Summary of main activities in the period 2003-2008**

### **Business meetings**

COM holds a Business Meeting every two years, coinciding with the International Geological congress (Florence 2004, Oslo 2008) and the General Meeting of the International Mineralogical Association (Kobe, 2006).

### **COM website**

COM created an independent website hosted at the Geological Survey of Finland.

### **Scientific sessions at international meetings and short courses**

(A) *VGP 30, EGS-AGU-EUG Joint Assembly, in Nice, France, 7<sup>th</sup>-11<sup>th</sup> April 2003.*

Scientific session 'Gold and Platinum Group Minerals: from experimental mineralogy and microanalysis to deposit Modelling'.

(B) *Scientific sessions at the 32<sup>nd</sup> International Geological Congress, Florence, August 2004*

COM organised three scientific sessions for the 32<sup>nd</sup> IGC, Florence, Italy, 20-28 August 2004.

'Gold deposits in diverse geological environments' (co-proposed by COM and IAGOD). This symposium session received 108 contributions and was held as an all-day session on Saturday 21<sup>st</sup> August.

'Telluride and selenide minerals related to gold and platinum group element deposits', co-sponsored by IGCP project 486. The session received 52 contributions and was held as an all-day session on Sunday 22<sup>nd</sup> August.

'Mineral Deposits' session on 'Conventional and unconventional platinum group mineral deposits'. The session was held on Friday 27<sup>th</sup> August.

(C) *Joint meeting of IMA-COM and the Applied Mineralogy Group of the Mineralogical Society (U.K.), 7<sup>th</sup> January 2005*

A session "Platinum metals in the urban environment - should we worry?" formed part of the larger meeting of the Mineralogical Society of Great Britain and Ireland (6-7<sup>th</sup> January 2005, Bath, U.K.) with the title "Environmental Mineralogy, Geochemistry and Human Health". COM Chairman Roland K.W. Merkle gave a keynote lecture 'Large scale PGE anomalies in South Africa and possible mechanisms for the release of PGE to the environment'.

(D) *Short Course during the 10<sup>th</sup> International Platinum Symposium, Oulu, Finland, August 2005*

A Short course 'Current methods in applied mineralogy of platinum-group element ores and products' was co-sponsored by COM and held during the International Platinum Symposium, Oulu, Finland (August 6<sup>th</sup> 2005), organized by Prof. Louis J. Cabri. Five invited speakers delivered the lectures.

(E) *Scientific session at 19<sup>th</sup> General Meeting of the International Mineralogical Association, Kobe, Japan, July 23-28<sup>th</sup> 2006*

Session 16: 'Mineralogy of Ore Deposits'.

(F) *Scientific session at 33<sup>th</sup> Geological congress, Oslo, Norway, August 23-28<sup>th</sup> 2008*

Sessions: MPM 04, Platinum Group Minerals (2 invited speakers, 12 talks and 4 posters), MRD 09 (8 talks and 5 posters) and MPM 03 Metals in the Earth: from vital resource to environmental hazards (jointly with CAM). Conveners: David Vaughan, Dogan Pactunc, Kari Kojonen.

(G) *Field workshop at Espoo (Finland), 26-31 August 2007*

'The Au-Ag telluride-selenide deposits' field workshop was organized in Espoo, Finland, from 26 to 31 of August 2007. A volume of extended abstracts (Geological Survey of Finland Guide number 53) Au-Ag telluride-selenide deposits (Eds: K.K. Kojonen, N.J. Cook and J. Ojala) was published by the Geological Survey of Finland.

### **Short courses**

During the 1990's, IMA-COM held several short courses in advanced ore mineralogy. The last such course was held in Finland in 2000. The difficulty of ensuring appropriate funding for future short courses has led to several attempts in the past few years to be abandoned. Two COM short course venues were proposed in 2006 (Nanjing, Peoples Republic of China; Kharagpur, India) for 2008/2009, but there has, regrettably, been little progress during 2008 to develop business plans for the first of these.

### **Reports of COM sub-commissions**

The sulphosalt sub-commission of COM presented their full-length report.

### **Involvement in IGCP project**

A number of COM 'members' joined the vice-chairman and secretary in proposing the IGCP project "Au-Ag-telluride-selenide deposits in Europe and in developing countries" (IGCP 486; 2003-2008).

### **Other activities/initiatives**

IMA-COM has attempted to take a more active role in ensuring quality control of reported ore mineralogical data. The IMA-COM President Roland Merkle (2002-2006) made a call for COM 'members' to become



---

involved in international initiatives of the International Standards Organisation (ISO) aimed at establishing guidelines for standardisation of microbeam data acquisition routines.

IMA-COM has called for valuable – and often irreplaceable collections of polished ore mineral specimens to be deposited in museums and mineralogical institutions to be preserved, and catalogued for future researchers. Discussion among various institutions has been initiated on the optimal way to ensure a systematic and common approach.

The initiative of the COM to organize a standard set of ore minerals abbreviation was briefly discussed. The chairman explained that this is a difficult target and suggested to use the abbreviations recommended by the Canadian Mineralogist.

COM has also continued to promote 'Virtual Ore Mineralogy', in which a series of descriptions of ore minerals with optical images will be available free of charge on the IMA-COM website.

---

### **Workplan for 2009, with perspectives for 2010-2012**

In the next term (2009-2012), COM will continue to organize scientific sessions within large international scientific meetings, such as the IGC, Goldschmidt meeting and IMA General Meetings. COM will redouble its efforts to organise short courses where they have not been held previously (particularly in developing countries).

#### **COM Short courses**

During the business meeting of Oslo, was discussed the possibility to organize the following short courses:

- 1) Nigel Cook reported on plans to hold a COM short course in India in November 2009. A tentative schedule has been agreed and list of proposed guest lecturers and budget is now in preparation
- 2) COM short course in Leoben (Austria) dealing with mineralogy, geochemistry and ore deposits of Platinum group elements (possible date: from 28<sup>th</sup> August to 1<sup>st</sup> September 2010 - after the IMA General Meeting of Budapest) organized by Aberra Mogessie, Oskar Thalhammer and Federica Zaccarini. The preliminary program will be available soon.

#### **Other projected activities**

- (1) Reporting by the COM sub-commission on 'selenide and telluride mineralogy' within the period 2006-2010, with final reporting at the 20<sup>th</sup> IMA General meeting in Budapest, 2010.
- (2) Further development of the 'Virtual Ore Mineralogy' website.
- (3) A more proactive role in ensuring quality control of reported ore mineralogical data in the future.
- (4) Greater emphasis on the preservation of valuable - and often irreplaceable - collections of polished ore mineral specimens, depositing them, ideally in museums and mineralogical institutions. IMA-COM needs to prepare a set of guidelines for wide distribution. Closer contact with the IMA Commission on Museums would appear to be essential.
- (5) Following the suggestion of Dr. Louis Cabri, the IMA-COM should promote itself by writing a short article in the journal 'Elements' showcasing its activities.

Federica Zaccarini  
Secretary, IMA-COM

---

Honorary member: Dr. Louis Cabri, E-mail: [lcabri@sympatico.ca](mailto:lcabri@sympatico.ca)

---

List of National Representatives (updated September 2008)

Entries in **RED** are cases where the national mineralogical society has been contacted regarding a new appointment. The 'old' names are retained until such an appointment is formalised.

**Argentina:** Dr. M. de Brodtkorb, E-mail: [milkabro@gmail.com](mailto:milkabro@gmail.com)

**Australia:** Prof. Jeff Vaughan, E-mail: [Vaughanj@wasm.curtin.edu.au](mailto:Vaughanj@wasm.curtin.edu.au)

1. **Austria:** Prof. Werner H. Paar, E-mail: [Werner.Paar@sbg.ac.at](mailto:Werner.Paar@sbg.ac.at)

2. **Belgium:** Prof. Eric Pirard, E-mail: [Eric.Pirard@ulg.ac.be](mailto:Eric.Pirard@ulg.ac.be)

3. **Brazil:** Dr. Nelson Angeli, E-mail: [nangeli@rc.unesp.br](mailto:nangeli@rc.unesp.br)

4. **Bulgaria:** Assoc. Professor Dr. Kamen Bogdanov, E-mail: [kamen@gea.uni-sofia.bg](mailto:kamen@gea.uni-sofia.bg)

5. **Canada:** Dr. Steve Kissin, E-mail: [sakissin@gale.lakeheadu.ca](mailto:sakissin@gale.lakeheadu.ca)

6. **China:** Prof. Dr. Liu Jianming, E-mail: [jmliu@mail.c-geos.ac.cn](mailto:jmliu@mail.c-geos.ac.cn)

7. **Croatia:** (no representative currently appointed)

8. **Czech rep.:** Dr. František LAUFEK, E-mail: [laufek@cgu.cz](mailto:laufek@cgu.cz)

9. **Denmark:** Prof. Emil Makovicky, E-mail: [EMILM@geol.ku.dk](mailto:EMILM@geol.ku.dk)

10. **Egypt:** Hassan M. Helmy, E-mail: [hmelmy@yahoo.com](mailto:hmelmy@yahoo.com)

11. **Finland:** Kari Kojonen

12. **France:** Dr. Olivier Legendre, E-mail: [o.legendre@brgm.fr](mailto:o.legendre@brgm.fr)

13. **Germany:** Dr. H-J. Bernhardt, E-mail: [Heinz-Juergen.Bernhardt@rz.ruhr-uni-bochum.de](mailto:Heinz-Juergen.Bernhardt@rz.ruhr-uni-bochum.de)

14. **Greece:** (no representative currently appointed)

15. **Hungary:** Dr. Ferenc Molnar, E-mail: [molnar@abyss.elte.hu](mailto:molnar@abyss.elte.hu); [molnarf@externet.hu](mailto:molnarf@externet.hu)

16. **India:** Biswajit Mishra, E-mail: [bmgg@gg.iitkgp.ernet.in](mailto:bmgg@gg.iitkgp.ernet.in)

17. **Italy:** Prof. Pierfranco Lattanzi, E-mail: [lattanzp@unica.it](mailto:lattanzp@unica.it)

18. **Japan:** Prof. Masaaki Shimizu, E-mail: [mshimizu@sci.u-toyama.ac.jp](mailto:mshimizu@sci.u-toyama.ac.jp)

19. **Korea (South):** (no representative currently appointed)

20. **Netherlands:** Dr. J.H.L. Voncken, E-mail: [J.H.L.Voncken@tudelft.nl](mailto:J.H.L.Voncken@tudelft.nl)

21. **New Zealand:** Dr. Jeff Mauk, E-mail: [j.mauk@auckland.ac.nz](mailto:j.mauk@auckland.ac.nz)

22. **Norway:**

23. **Poland:** Prof. Adam Pięstrzyński, E-mail: [piestrz@geol.agh.edu.pl](mailto:piestrz@geol.agh.edu.pl)

24. **Portugal:** Dr. Orlando da Cruz Gaspar, E-mail: [orlando.gaspar@netcabo.pt](mailto:orlando.gaspar@netcabo.pt)

25. **Romania:** Dr. Sorin-Silviu Udubasa, E-mail: [udubasa@geo.edu.ro](mailto:udubasa@geo.edu.ro)

26. **Russia:** Prof. Nadejda N. Mozgova, E-mail: [mozgova@igem.ru](mailto:mozgova@igem.ru)

27. **Slovakia:** Prof. Martin Chovan, E-mail: [chovan@fns.uniba.sk](mailto:chovan@fns.uniba.sk)

28. **Slovenia:**

29. **South Africa:** Prof. Roland Merkle, E-mail: [rkwm@scientia.up.ac.za](mailto:rkwm@scientia.up.ac.za)

30. **Spain:** Prof. F. Gervilla, E-mail: [gervilla@ugr.es](mailto:gervilla@ugr.es)

31. **Sweden:** Dr. O. Amcoff, E-mail: [orjan.amcoff@geo.uu.se](mailto:orjan.amcoff@geo.uu.se)

32. **Switzerland:** Dr. Lluís Fontbote, E-mail: [lluis.fontbote@terre.unige.ch](mailto:lluis.fontbote@terre.unige.ch)

33. **Ukraine:** Dr. Alexander V. Emetz, E-mail: [emetz\\_a@igmr.relc.com](mailto:emetz_a@igmr.relc.com)

34. **U.K.:** Prof. D.J. Vaughan, E-mail: [david.vaughan@manchester.ac.uk](mailto:david.vaughan@manchester.ac.uk)

35. **USA:** Prof. Mark Barton, E-mail: [barton@geo.arizona.edu](mailto:barton@geo.arizona.edu)

36. **Uzbekistan:** Prof. Rustam Koneev, E-mail: [rkoneev@yahoo.com](mailto:rkoneev@yahoo.com)

### Countries not affiliated to IMA

Chili: **Assoc. Prof. Diego Morata**, E-mail: [dmorata@cec.uchile.cl](mailto:dmorata@cec.uchile.cl)

Colombia: Assoc. Prof. Carlos Molano Mendoza, E-mail: [jcmolanom@unal.edu.co](mailto:jcmolanom@unal.edu.co)

Mexico: Dr. Antoni Camprubí i Cano, E-mail: [camprubitaga@gmail.com](mailto:camprubitaga@gmail.com)

Turkey: Prof. Ibrahim Uysal, E-mail: [iuysal@ktu.edu.t](mailto:iuysal@ktu.edu.t)

## **Minutes of Business Meeting held during the 33<sup>rd</sup> International Geological Congress, Oslo, Norway**

Sunday, 10<sup>th</sup> August 2008, 16:00-18:00, Vestfold room, Norway Convention Centre, Lillestrøm

### **Those attending:**

Prof. Nigel Cook, Norway, Chairman  
Dr. Kari Kojonen, Finland, Vice-Chairman  
Dr. Federica Zaccarini, Austria, Secretary

### **National Representatives:**

Prof. Nelson Angeli, Brazil  
Prof. Giorgio Garuti, Italy  
Prof. Hassan Helmy, Egypt  
Prof. Rustam Koneev, Uzbekistan  
Prof. Shimizu Masaaki, Japan

### **Alternates and guests**

Dr. Louis Cabri, Canada (Guest)  
Dr. Aleksander Jukov, Uzbekistan (Guest)  
Mr. Rustam Khamatov, Uzbekistan (Guest)  
Prof. Andy McDonald, Canada (Guest)  
Prof. Aberra Mogessie, Austria (Guest)  
Prof. Ibrahim Uysal, Turkey (Guest)  
Prof. Khin Zaw, Australia (Alternate)

1. The chairman Prof. Nigel Cook opened the meeting and welcomed the participants. The meeting agenda was accepted. Apologies for absence from the following National Representatives were recorded: Prof. S. Kissin (Canada), Dr. J.L. Mauk (New Zealand), Prof. F. Molnar (Hungary), Prof. E. Pirard (Belgium), Prof. J. Vaughan, (Australia), Prof. K. Bogdanov (Bulgaria), Prof. E. Makovicky (Denmark), Dr. H.J. Bernhardt (Germany), Prof. Biswajit Mishra (India).

2. The minute of the previous business meeting held 2006 in Kobe, Japan, were distributed to the delegates and briefly read by the Secretary Federica Zaccarini and approved. The file of the minute is available in COM website: [http://www.gsf.fi/domestic/com/COM\\_Kobe\\_minutes.pdf](http://www.gsf.fi/domestic/com/COM_Kobe_minutes.pdf)

3. The secretary reported on the present day status of the National Representatives. It was noted that some of them had changed in the last years and that others appeared rather inactive, as also previously reported during the last COM business meeting of Kobe. In particular, Dr. Kari Kojonen informed the COM that Prof. Puri Fenoll of Spain has been substituted by Prof. Fernando Gervilla. Prof. Giorgio Garuti (Italy) announced that he will retire from the 1<sup>st</sup> January 2009. Therefore, he will contact the Italian Society of Mineralogy and Petrology with the aim of finding a substitute. Furthermore, it was also noted that several countries in which ore deposits still play an important role, such as Greece, Chile, Mexico, Colombia, etc. do not have not a COM national representative. Therefore, in the near future, the Mineralogical or Geological societies of these countries will be contacted to try to fill this gap. Prof. Ibrahim Uysal, of Karadeniz Technical University, Trabzon, Turkey, was proposed by the Secretary as the new national representative of his country, where an official Mineralogical Society does not exist. All those present agreed. The Chairman offered to contact a number of mineralogical societies in order to seek new, active representatives to the commission. It was also proposed to nominate Dr. Louis Cabri as an Honorary Member of the COM. All those present agreed.

4. The following current and future activities of the COM were discussed.  
Three sessions convened by COM were held during the 33<sup>rd</sup> IGC 2008 in Oslo:

1. Metals in the Earth: from vital resource to environmental hazard (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.

COM has proposed the following session for the next IMA general Meeting to be held in Budapest (Hungary) in 2010:

Automated Techniques in Ore Mineralogy (Conveners: Roland Merkle, Alan Butcher and Hanna Horsch)

Offers of additional sessions are still sought and should be communicated to the local organizing committee by the end of 2008. Alternatives discussed by COM as potential additions included a PGM session (tied in to the Leoben workshop described below), a gold session (possibly focusing on recent advances in the understanding of 'invisible' gold?), a session on 'Ore mineralogy of magmatic-hydrothermal deposits in the Alpine-Carpathian-Balkan area' and one on 'Modular structures in ore minerals'.

Kari Kojonen informed that a field workshop titled Au–Ag telluride–selenide deposits was organized in Espoo, Finland, from 26 to 31 of August 2007. A volume of extended abstracts (Geological Survey of Finland Guide number 53) Au–Ag telluride–selenide deposits was published by the Geological Survey of Finland and edited by K.K. Kojonen, N.J. Cook and Juhani Ojala.

A proposal to organize a COM short course in Leoben (Austria) dealing with mineralogy, geochemistry and ore deposits of Platinum group elements (possible date: from 28<sup>th</sup> August to 1<sup>st</sup> September 2010 - after the IMA General Meeting of Budapest) was presented. A power point presentation was shown by Federica Zaccarini. All those present agreed enthusiastically with this proposal. Federica Zaccarini and Aberra Mogessie (two of the Austrian coordinators of this course) will keep IMA-COM informed about further progress in the organization. It was also suggested to organize a session on Platinum group minerals during the IMA meeting of Budapest.

IMA-COM representatives were encouraged to consider proposals for scientific sessions at other future international congresses which could be sponsored by the commission.

The Chairman reported on plans to hold a COM short course in India in November 2009. A tentative schedule has been agreed and list of proposed guest lecturers and budget is now in preparation.

There has been no further activity concerning a proposed short course in China in 2009/2010.

5. Regarding COM website development, the person responsible, Kari Kojonen, explained that the COM virtual ore microscopy is still under construction. In this respect, Andy McDonald, Hassan Helmy and other national representatives offered their help for the development of this important aspect of the COM web site. All those present were encouraged to prepare an initial set of ten photographs for uploading to the site in the months after the business meeting. Kari Kojonen will be sending instructions regarding format and accompanying descriptions.

6. The following activities of COM sub-commissions were reported.

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.

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

7. During the recent IMA Council meeting held in Vancouver 14<sup>th</sup> July 2008, the IMA council recognized the scientific interest of the COM and the good work achieved by its chairs and members. Nigel Cook and Kari Kojonen reported the following interactions between COM and other IMA commissions and working groups and noted that we should continue to open dialogue and work more closely with certain commissions, in particular the Commission on Applied Mineralogy (CAM), the Commission on New Minerals, Nomenclature and Classification (CNMNC) and the Commission on Museums (CM).

The Chairman remarked that the 2014 General Meeting of IMA will be held in South Africa and that the IMA constitution had been slightly amended, notably allowing IMA commissions to make ad hoc additions to its representatives.

8. Other business and open discussion.

- Dr. Kari Kojonen mentioned the problem concerning certain aspects of microbeam analysis and suggested to follow the procedures provided by Committees of International Organization for Standardization (see the COM website).
- Regarding microprobe analyses, Prof. Nigel Cook reported that several countries, such as India, are requiring the help of scientists and technicians expert in this topic to properly organize the new microprobe laboratories recently installed in their countries. This is an area where COM should consider to step-up outreach activities in the future.
- Prof. Andy McDonald stressed out that in many countries, including those with a long tradition in the investigation of ore deposits such as Canada, ore mineralogy is not anymore considered an important topic and only few people are still involved in this branch of mineralogy. Therefore, it is very necessary to promote ore mineralogy and, in this respect, the COM national representatives can play an important role. Dr. Louis Cabri suggested that IMA-COM promote itself by writing a short article in the journal 'Elements' showcasing our activities. This was enthusiastically agreed by those present.
- The initiative of the COM to organize a standard set of ore minerals abbreviation was briefly discussed. The chairman explained that this is a difficult target and suggested to use the abbreviations recommended by the Canadian Mineralogist.
- Prof. Shimizu Masaaki emphasized the role COM should play in ensuring that polished sections and ore samples are preserved for the benefit of future researchers. IMA-COM needs to prepare a set of guidelines for wide distribution. Closer contact with the IMA Commission on Museums would appear to be essential

9. The chairman closed the meeting shortly after 18:00.

Federica Zaccarini

Item 17 - CPM report for 2008

**IMA**  
**Commission on Physics of Minerals**  
**(CPM)**  
**2008 Annual report to IUGS**

<http://www.ima-mineralogy.org/com-wg/CPM/CPM.html>  
Former website: [http://www.sbg.ac.at/min/cpm/cpm\\_index.htm](http://www.sbg.ac.at/min/cpm/cpm_index.htm)

Current Officers :

Chairman: Eiji Ohtani

Vice-Chairman: Daniel Neuville

Secretary: Suzan Schorr

Corresponding member in the Council: Takamitsu Yamanaka

Report of CPM activity in 2008: 2008 11/14

**1. Commission of Physics of Minerals**

The current officers of the CPM is Eiji Ohtani (ohtani@mail.tains.tohoku.ac.jp) as Chairman, Daniel Neuville (neuville@ipgp.jussieu.fr) as Vice-Chairman and Suzan Schorr (sschorr@uni-leipzig.de) as Secretary. Besides the three Officers, the commission has 9 members.

**2. Overall objectives of our commission**

The Commission on Physics of Minerals was established for the promotion of the application of modern solid state physics to minerals at low and high temperatures as well as at high pressures and dynamics of the earth and planetary interior by workshop, conferences and publications.

**3. Chief accomplishments in 2008**

(1) CPM played following active roles in international and local meetings during 2007-2008. CPM organized and convened sessions in the following meetings:

1) 2007AGU fall meeting 11-15<sup>th</sup> Dec. 2006 at San Francisco: Eiji Ohtani awarded NL. Bowen Award from VGP section of AGU and made a Bowen Lecture at the meeting.

2) 2008 EGU meeting: E. Ohtani made an invited talk at the water session in the meeting.

3) The 100<sup>th</sup> Anniversary of Prof. V.S. Sobolev international meeting at Novosibirsk, Russia on June 5-10, 2008. Eiji Ohtani made an invited talk on heterogeneous distribution of hydrogen in the transition zone.

4) 2008AOGS (Asia Oceania Geoscience Society) meeting: 16-20 June, 2008 in Busan, Korea: CPM organizes a session on Mineral Physics in the mantle, and E. Ohtani made an invited talk on role of hydrogen in the transition zone.

5) 33<sup>rd</sup> IGC Oslo: Three sessions were organized by the CPM officers: Spectroscopy session by Georg Amtauer, the Melts and glasses in mineralogy and petrology session by Daniel Neuville et al., and the session "Properties and dynamics of the mantle and core" by Eiji Ohtani, G. Steinle-Neumann, Bernhard Steinberger, James Connolly, Shun-ichiro Karato

6) 2008 JPGU (Japan Geoscience union) annual meeting was held at Makuhari, Chiba, Japan on 19-24<sup>th</sup>, May, 2008. CPM organizes two sessions on High Pressure Earth Science and Physics and Chemistry of Earth's Minerals in this JPGU meeting.

7) 2008 Goldschmidt conference at Bancouver, July 13<sup>th</sup> -19<sup>th</sup>, 2008. Grand Henderson, Daniel Neuville, and Eiji Ohtani organized a session "Diffraction and Absorption Spectroscopies at high temperatures and pressures. Eiji Ohtani made a keynote talk at the Deep-Mantle chemistry session organized by J. Badro and Y. Fei.

(2) Bulletins, News, and Website: Website of CPM is established in 2003 and continuously maintained for communication of the members.

**Publication: Special issues:** Current Frontiers and Grand Challenges in Elasticity, Phase Transitions, and Rheology Studies (Editors; Afu Lin, Jay Bass, Shun-ichiro Karato, Eiji Ohtani, and Charles Prewitt) was published in October, 2008 from PEPI (Elsevier). We are currently working to publish the proceedings volume of High Pressure Mineral Physics Seminar-7 (Editors, E. Ohtani, D. Andrault, P. Asimow, L. Stixrude, and Y. Wang).

#### 4. Workplan for 2009

**Website:** Website will be renewed and report updated new information on the new officers of this commission and the forthcoming related meetings to be held in the world.

**Publication and Books** –The proceedings volume of High Pressure Mineral Physics Seminar-7 (Editors, Ohtani, Andrault, Asimow, Stixrude, and Wang) will be published in PEPI in early 2009.

**Meetings:**

1) Dec. 14-20 2008AGU fall meeting at San Fransisco: Eiji Ohtani organizes a session on melt and fluid at high pressure with Hans Mueller, Yanbin Wang, Charles Lesher. Eiji Ohtani makes an invited talk in the sessions of Spin transition in the lower mantle, and he also makes an invited poster in the session of the deep water cycle.

2) May, 2009: 2009AGU Spring meeting at Toronto: Daniel Neuvile organizes a glass and melt session in the meeting.

3) March-April 2009 SMEC Meeting. Eiji Ohtani organizes a core and core-mantle boundary session with Yingwei Fei of Geophysical Laboratory, CIW.

4) 2009 JPGU (Japan Geoscience union) annual meeting will be held at Makuhari, Chiba, Japan on 16-21<sup>th</sup>, May, 2009. CPM organizes two sessions on Physics and Chemistry of Earth's Minerals in this JPGU meeting, and one international session on dynamics of the Earth's interior.

#### 5 List of Officers and National Representatives

The current officers of the CPM is, Eiji Ohtani as as Chair

([ohtani@mail.tains.tohoku.ac.jp](mailto:ohtani@mail.tains.tohoku.ac.jp)), Daniel Neuville as Vice-Chairman ([neuville@ipgp.jussieu.fr](mailto:neuville@ipgp.jussieu.fr)), and Suzan Schorr ([sschorr@uni-leipzig.de](mailto:sschorr@uni-leipzig.de)) as Secretary.

Besides the three Officers, the commission has 9 members.

Eiji OHTANI (Chairman),

Department of Earth Material Science, Graduate School of Science, Tohoku University, Aoba Sendai 980-8578, Japan, TEL +81-22-217-6662, FAX +81-22-217-6675, E-mail:

[ohtani@mail.tains.tohoku-u.ac.jp](mailto:ohtani@mail.tains.tohoku-u.ac.jp)

Daniel NEUVILLE (Vice-Chairman),

Laboratoire de Physique des Géomatériaux, CNRS-EUMR7046

Institut de Physique du Globe, 4 place jussieu, 75252 Paris Cedex 05, E-mail:

[neuville@ipgp.jussieu.fr](mailto:neuville@ipgp.jussieu.fr)

Suzan Shorr (Secretary), University of Leipzig, Germany, E-mail: [sschorr@uni-leipzig.de](mailto:sschorr@uni-leipzig.de)

Georg AMTHAUER

Institut fuer Mineralogie, Universitaet Salzburg, Hellbrunnerstrasse 34, A-5020 Salzburg

Tel: ++43-662-8044-5402; Fax: ++43-662-8044-622; E-mail: [Georg.Amthauer@mh.sbg.ac.at](mailto:Georg.Amthauer@mh.sbg.ac.at)

Hans ANNERSTEN,

Department of Earth Sciences, University of Uppsala, Villavägen 16

SE 752 36 Uppsala, Phone: 46 (0)18 471 2550, Fax: 46 (0)18 471 2591, e-mail: Hans.

[Annersten@geo.uu.se](mailto:Annersten@geo.uu.se)

Michael GAFT,

Physics Group, The Open University of Israel, 16 Klausner Street, P.O. Box 39328

Tel Aviv 61392, Tel: 972-3-6460549; Fax: 972-3-6465465, e-mail: [michael@oumail.openu.ac.ill](mailto:michael@oumail.openu.ac.ill)

Ahmed H. HASHAD, Nuclear Materials Authority, Maadi, Qattamyia,, Cairo, E-mail:

[ahyhashad@hotmail.com](mailto:ahyhashad@hotmail.com)

J. MARKGRAAF,

Dept Of Metallurgical Engineering, Potchefstroom University, Potchefstroom, 2520

Nancy ROSS,

Department of Geological Sciences, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0240; Tel: (540) 231-6356; Fax: (540) 231-3386; E-mail: [nross@vt.edu](mailto:nross@vt.edu)

Silvio Roberto Farias VLACH



Institute of geosciences, University of Sao-Paulo, Rua do Lago 562, 05508-900 São Paulo; I.: 55 113818 3998; Fax: 55 11 3818 4258; E-mail: srfvlach@usp.br

Takamitsu YAMANAKA (Prof. Yamanaka is the next president of IMA, and a member will be replaced, please confirm!)

Department of Earth and Space Science, Osaka University, Machikaneyama-cho 1-1, Toyonaka 560-0043; TEL, FAX +81-6-6850-5793; E-mail: t.yamanaka@kce.biglobe.ne.jp





Item 18 - WGEMG report for 2008

**IMA**  
**Working Group on Environmental Mineralogy and**  
**Geochemistry**  
**(WGEMG)**  
**2008 Annual report to IUGS**

---

<http://www.ima-mineralogy.org/com-wg/WGEMG/WGEMG.html>

Current Officers :

Chairman: David J. Vaughan

Vice-Chairman: Tom Sato

Secretary: Anne J. B. Thompson

Corresponding member in the Council: Frances Wall

During the reporting period, the WGEMG participated in the organisation and running of sessions at two major international meetings. At the International Geological Congress held in Oslo, Norway in August, a session dealing with the cycling of metals in the environment was held in conjunction with other (general) mineralogical presentations. The conveners were Kari Kojonen, Chris Stanley and David Vaughan, who also gave a keynote lecture in the session.

In July, an extremely successful symposium was organised by the WGEMG at the Goldschmidt Conference in Vancouver, Canada. This symposium entitled "Mineralogy and Geochemistry of Metalliferous Mine Wastes" was held in honor of John Jambor, whose death in January 2008 deprived the environmental mineralogy community of one of its most eminent and productive scientists. John, in fact, served as the first secretary of the WGEMG, and the tremendous response to the call for abstracts for this symposium was a clear indication of the high regard and affection with which he was held by his colleagues. In a full day and a half of oral presentations plus a poster session, a total of 49 papers were delivered to an audience of several hundred scientists. The symposium was organized and chaired by Anne J.B. Thompson (WGEMG Secretary) and David Vaughan and the keynote lecture was delivered by David Blowes.

Plans are well in hand for a special publication arising from the 'Jambor Symposium' to be edited by Anne Thompson and David Vaughan. This will probably appear in 2009 as an issue, or part issue, of the journal 'Applied Geochemistry'.

David J Vaughan (Chairman)

Anne J B Thompson (Secretary)

WGEMG

November 2008

Item 19 - WGIM report for 2008

**IMA**  
**Working Group on Inclusion in Minerals**  
**(WGIM)**  
**2008 Annual report to IUGS**

<http://www.ima-mineralogy.org/com-wg/WGIM/WGIM.html>

Current officers:

Chairman: Dr. Sergey Smirnov

Secretary: Prof. Pei Ni

Corresponding member in the Council: Ekkehart Tillmanns

The major aims of the Working group on inclusions in minerals in 2008 was the participation in organization of Symposium at 33 IGC in Oslo, Norway, Asian Conference on Current Research of Fluid Inclusions (ACROFI) in Kharagpur, India and renewal of the group members.

**1) Working group sponsored the organization of Symposium MPM-13 "Inclusions in minerals"** at the 33 International Geological Congress in Oslo, Norway.

Conveners: Sergey Smirnov, Institute of Geology and Mineralogy SB RAS, Russia, WGIM IMA

Pei Ni, Nanjing University, China, WGIM IMA

Number of presentations: Orals – 5; Posters - 13

Symposium summary:

Minerals contain a variety of different phases that were entrapped in the course of their formation and then isolated as inclusions. All of them can be divided into three groups: mineral inclusions, fluid, and melt inclusions. Recently they are believed to be an important source of geochemical and petrological information. They give to geologists an opportunity to trace past geological processes from the nano- and microscale up to the rock formation scale. As isolated phases the inclusions frequently bring geological information that was erased from rocks by later overprinting processes. In spite of the fact that the inclusions were studied for more than 150 years, they still trigger hot discussions on their origin, properties and importance. On the other hand they proved their importance in revealing P-T-X conditions of mineral and rock formation from the Earth mantle depths to the surface of the Earth and even in the Solar system.

The session was addressed to those who deal with inclusions in minerals for reconstruction of geological processes - magma evolution, metamorphism, ore formation, sedimentary basin evolution, etc.

The abstracted papers were devoted to problems of inclusion microanalysis, age and isotopic study of microinclusions. Majority of the presented papers were dedicated to inclusion evidences of magma evolution and its relations to ore formation. One of the important topics, represented at the IGC was development of melt inclusions study methods.

**2) Asian Conference on Current Research of Fluid Inclusions (ACROFI-II)** is now in progress in Indian Institute of Technology in Kharagpur, India. Conference includes 67 oral presentations, 3 pre-conference and 1 post-conference field trips. Oral presentations are organized in 10 sessions: Fluids in metamorphism, Fluid in deformation of rocks, New techniques and PVTX relationships, Auriferous ore fluids, Ore fluids in Granite-Pegmatite environment, Fluid inclusions in mineral exploration, Fluid inclusions in ore environment (PGE, U, base metals), Fluid inclusions in ore environments (non metallic), Melt inclusions, Basinal fluids and hydrocarbon exploration.

Participants of this conference generally represent scientific communities of India, China, Russia, Australia and some important delegates from European countries.

**3) Dr. S. Smirnov and Prof Pei Ni prepared the list of new WGIM members** and invitation for them.

It was decided to leave those old members which will agree with prolongation of their participation in WGIM and add new members in order to have representatives of scientific communities with strong groups of inclusion's scientists.



**Item 20 - WGSECE report for 2008**

**IMA**  
**Working Group on Solid Earth Composition and Evolution**  
**(WGSECE)**  
**2008 Annual Report to IUGS**

---

<http://www.ima-mineralogy.org/com-wg/WGSECE/WGSECE.html>

Current Officers :

Chairman: Yaoling Niu

Vice-Chairman: Andrew C. Kerr

Secretary: Ian Campbell

Corresponding member in the Council: to be named