

Annex of the IMA report for 2010 to IUGS Reports of IMA Commissions and Working groups

Access of the 2010 IMA report to IUGS : <http://www.ima-mineralogy.org/transactions.html>
For a copy of the pdf version of the annual report of IMA Com-WG :
: http://www.ima-mineralogy.org/download/IUGS-reports/2010report/IMA2010_ComWg-Rpt.pdf

List of IMA officers of Commissions and Working groups

Most of the Officers were elected in August 2010. The list was subsequently modified up to the 14th of January.

Commissions

1 - Commission on Applied Mineralogy (CAM)

Chairman: Eric Pirard (new)

Vice-Chairman: Maarten Broekmans (new)

Secretary: Megan Becker (new)

Past-Chair: Richard Hagni, Dogan Paktunc

1.1 *Sub-commission on Building Materials* chaired by Maarten Broekmans

1.2 *Sub-commission on Cultural Heritage and Archaeological Materials* chaired by Isabella Memmi

1.3 *Sub-commission on Advanced Ceramics and Glasses* chaired by Hans-Joachim Kleebe

1.4 *Sub-commission on Metallurgy and Quantitative Mineralogy* chaired by Dee Bradshaw (new)

2 - Commission on Gem Materials (CGM)

Chair: Lee Groat

Vice-Chairman: Wolfgang Hofmeister (new)

Secretary: Jim Shigley (new)

3 - Commission on Mineral Growth and Interface Processes (CMGIP)

Chair: Katsuo Tsukamoto

Vice-Chairman: Andreas Lutge

Secretary: Jeanne Paquette

4 - Commission on Museums

Chair: Lydie Touret

Vice-Chairman:

Secretary: Peter Davidson (new)

Subcommission on Type Minerals chaired by Nicholas Meisser

5 - Commission on New Minerals, Nomenclature and Classification (CNMNC)

Chair : Peter (Pete) A. Williams

Vice-chair (changes in existing nomenclature): Frédéric Hatert

Vice-chair (general classification matters) : Marco Pasero

Secretary: Stuart J. Mills

Subcommittees:

Subcommittee on Pyrochlore

Subcommittee on Tourmaline

Subcommittee on Alunite

Subcommittee on Amphibole

Subcommittee on Lovozerite

Subcommittee on Apatite

Chair: Daniel Atenzio

Chair: Milan Novák

Chair: Peter Bayliss

Chairs: Frank Hawthorne, Roberta Oberti

Chair: Igor Pekov

Chair: Marco Pasero

<i>Subcommittee on Hydrotalcite</i>	<i>Chair: Stuart Mills</i>
<i>Subcommittee on Garnets</i>	<i>Chair: Anton Chakhmouradian</i>
<i>Subcommittee on Sulfosalt</i>	<i>Chair: Yves Moelo</i>
<i>Subcommittee on Epidote</i>	<i>Chair: Thomas Armbruster</i>
<i>Subcommittee on Aenigmatite</i>	<i>Chair: Ed Grew</i>
<i>Subcommittee on Unnamed minerals</i>	<i>Chair: Dorian Smith</i>

6 - Commission on Ore Mineralogy

Chair: Chris Stanley (new)
Vice-Chairman: Andy MacDonald (new)
Secretary: Federica Zaccarini
Sub-commission on Selenide-Telluride: Kari Kojonen

7 - Commission on Physics of Minerals

Chair: Eiji Ohtani
Vice-Chairman: Daniel Neuville
Secretary: Susan Schorr

Four sub-commissions are created in 2010

7.1 Sub-commission on Earth deep interior

Chair: Catherine McCammon (new)
Vice-chair: T. Inoue (new)

7.2 Sub-commission on Glass and melt studies and their applications to geosciences and industry

Chair: G.S. Henderson (new)
Vice-Chairman: H. Behrens (new)

7.3 Sub-commission on Spectroscopy, diffraction, and new instrumentations in mineral physics

Chair: Leonid Dubrovinsky (new)
Vice-Chairman: D. Shim (new)
Vice-Chairman: F. Di Benedetto (new)
Vice-Chairman: T. Irifune (new)

7.4 Sub-commission on Theoretical and computing mineral physics

Chair: R. Caracas (new)
Vice-Chairman: T. Tsuchiya (new)

Working groups

8 - Working Group on Environmental Mineralogy and Geochemistry (WGEMG)

Chair: Tom Sato (new)
Vice-Chairman: Mihaly Postfai (new)
Secretary: eva Valsami-Jones (new)

9 - Working Group on Inclusions in Minerals

Chairman: Pei Ni (new)
Vice-Chairman: Fanus Viljoen (new)
Secretary: Ronald Bakker (new)

10 - Working Group on Mineral Equilibria

Chair: Alexei L. Perchuk (new)
Vice-Chairman: Larissa F. Dobrzhinetskaya (new)
Secretary: Oleg G. Safonov (new)

11 - Working Group on Solid Earth Composition and Evolution (WGSECE)

Chair: Andrew C. Kerr (new)
Vice-Chairman: Pat Castillo (new)
Secretary: David Peate (new)

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IMA
Commission on Applied Mineralogy
(CAM)
2010 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: Eric Pirard

Vice-Chairman: Maarten Broekmans (position still to be approved by IMA)

Secretary: Megan Becker

Past-Chair: Dogan Paktunc

Sub-commission Chair (Building Materials): Maarten Broekmans

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

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

Sub-commission Chair (Geometallurgy): Dee Bradshaw

Corresponding member in the Council: C. Srikantappa

10 January 2011

Reporter:

Megan Becker

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 2010:

A business meeting was held on 24 August 2010 (18.30 - 20:00) at Eötvös University during the course of the IMA 2010 20th General meeting in Budapest, Hungary. Desh Chetty (South Africa), Kari Kojonen (Finland), Eric Pirard (new Chair), Jan Elsen (Belgium), Thomas Kerestedjian (Bulgaria), Dogan Paktunc (Chair), Ulf Halenius (Sweden), Tonci Balic-Zunic (Denmark), Robert Heimann (Germany), Marek Michalik (Poland), Jeff Mauk (New Zealand), Dieter Rammelmair (Germany), Georges Calas (France), Laurence Galois (France) and Megan Becker (Secretary) were in attendance.

4. Interface with other International organizations:

Dogan Paktunc gave a one-full day modular course entitled "Environmental and Process Mineralogy" as part of the Short Course "Geoenvironmental Modelling of Ore Deposits" organized

jointly by the University of Ottawa and Laurentian University, Ottawa, on the 18th February 2010. Over 100 professionals and graduate students representing 30 organizations and 16 universities attended the course.

For the third year now, Isabelle Memmi was a member of the organising committee and staff member of the Erasmus Intensive Program: "Materials and patrimony: Stone, glass ceramics and concrete durability and conservation" which was held in January 2010 at the University PARIS-EST Marne la Vallée.

Megan Becker was the technical consultant for the Minerals Engineering International "Process Mineralogy 10" Conference held in Cape Town, from 10-12 November. Over 100 delegates attended the conference. Megan Becker is the special issue advisor for the proceedings that will be published as a special issue in the Elsevier Minerals Engineering Journal. Megan Becker also organized a day trip for conference visitors to view the tomography facilities (X-ray CT, PEPT) in the Western Cape Winelands, in South Africa on 8th November, just prior to the conference. The day trip was hosted under the Minerals to Metals Initiative (University of Cape Town) and CAM.

IMA 2010

The 20th General Meeting of the International Mineralogical Association was held in Budapest, Hungary (21-27 August 2010). During the course of the meeting:

Dogan Paktunc and Johan de Villiers organized and chaired the session: "Geo-metallurgy and Process Mineralogy".

Dogan Paktunc and David Vaughan organized and chaired the session: "Mineralogy of mine wastes and contaminated soil".

Isabella Memmi and Corina Ionescu organized and chaired the session: "Composition, technology and provenance of archaeological artifacts". The session included ~49 oral, and poster presentations. Subsequently to the conference, the Editorial Board of the European Journal of Mineralogy has agreed to the publication of a special issue on "Mineralogical sciences and Archaeology", containing 12 papers chosen from oral and poster presentations. Isabella Memmi and Corina Ionescu will be the guest editors, and Uli Schussler the associate editor.

Eric Pirard, A. Lü ttge and G. Calas organised and chaired the session: "Applied Mineralogy – Materials Science". The session included ~60 oral and poster presentations.

Eric Pirard also organised a Short Course on "Quantitative Image Analysis of Minerals and Rocks" in between the IMA2010 and the IAMG2010 international conferences, both held at the same venue. The course was lectured by Eric Pirard (Université de Liège, Belgium) and Patrick Launeau (Université de Nantes, France) and held under the auspices of three scientific societies and commissions:

- Commission on Applied Mineralogy (IMA-CAM)
- International Association for Mathematical Geology (IAMG)
- International Association for Stereology and Image Analysis (ISS)



Figure 1: Course participants at the Quantitative Image Analysis of Minerals and Rocks Short Course. There were 14 participants from 9 different countries represented.

ICAM 2011

The next ICAM meeting will be held 1-5 August 2011 in Trondheim, Norway. Maarten Broekmans who is CAM's sub-commission chair on building materials will serve as the chair of the scientific committee and editor in chief. The official congress website is located at: www.icam2011.org. Altogether ~ 180 abstracts from over 40 countries worldwide were submitted by the final deadline on 15 November 2010. The committee has also received written interest of formal sponsorship from several companies, although the final agreements have yet to be signed.

Several workshops are scheduled to be held associated with the conference, including the "MSA Short Course on Applied Mineralogy of Cement and Concrete" sponsored by the Mineralogical Society of America and Geochemical Society, and course notes will be published in Reviews in Mineralogy and Geochemistry-series (www.minsocam.org/MSA/RIM).

5. Chief accomplishments in 2009:

New Appointments:

Dogan Paktunc stepped down from his position as Chair of CAM. Eric Pirard (past V/Chair) has taken over the position of Chair of CAM. Maarten Broekmans has been nominated as the new V/Chair (still to be approved by IMA).

Journals and Books

Eric Pirard (CAM Chair) and Jan Elsen (Belgium National Rep) contributed to the co-authoring of several chapters of the book "Advanced Characterization of Industrial Minerals" which was published by the European Mineralogical Union, and edited by G. Christidis in late 2010.

- Hart, J., Y. Zhu, and E. Pirard. Particle. Size and Shape Characterisation - Current Technology and Practice (48 pp).

- Pirard, E. and P. Sardini. Image analysis for advanced characterization of industrial minerals and geomaterials (52 pp).
- J. Elsen, G. Mertens and R. Snellings: Portland cement and other calcareous hydraulic binders: history, production and mineralogy.

The publication of the ISA2008 Proceedings, edited by Isabella Memmi is due for publication as a Springer Verlag e-book next December.

Other:

The CAM draft terms of reference (written by Dogan Paktunc) was officially approved by the IMA council.

6. Chief Problem Encountered in 2010:

The unavailability of a functional website has continued to create difficulties for CAM to achieve its mission, and is an area under discussion as a task for 2011.

The choice of national representatives can also be frustrating, since the national representatives do not necessarily have an interest in the CAM activities, but have rather been appointed by their local mineralogical society and the IMA. This situation is not always conducive for CAM to extend their activities and influence beyond the individual activities of its committee members.

7. Work plan for 2011 and beyond:

The creation of a new and interactive, up to date website is an area of further discussion. However, it has been recognised that in order to make the website sustainable, there needs to be some sponsorship.

The creation of a WIKI site on applied mineralogy is also an area that has been discussed at length by CAM, and it is intended that this continue.

Dee Bradshaw is a member of the organising committee of “Geomet 2011”, organised by the Australian Institute of Mining and Metallurgy, 6-7 September, Brisbane, Australia.

8. National Representatives:

Austria - Dr. V. Kahlenberg
Belgium - Prof. Jan Elsen
Bulgaria - Thomas Kerestedjian*
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. Kazumasa Sugiyama*
Netherlands - Dr. T.G. Nijland
New Zealand - Dr. J. L. Mauk
Romania - Dr. Gheorghe Damian
Russia - Professor V. M. Izoitko
South Africa - Dr 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

* New national representatives.

IMA
Commission on Gem Materials
(CGM)
2010 Annual Report to IUGS

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

Current Officers

Chair : Lee Groat

Vice-chair : Wolfgang Hofmeister

Secretary: Jim Shigley

Corresponding member in the Council: Robert Downs

11 January 2010

The following delegates of the Commission met on Saturday August 21st during the IMA meeting in Budapest. Present at the meeting were: Lee Groat (Chair; Canada), Corina Ionescu (Romania), Pornsawat Wathanakul (Thailand), Somruedee Satitkune (Thailand), James Shigley (USA), Ruslan Kostov (Bulgaria), Erik Jonsson (Sweden), Vladimir Bermanec (Croatia), and Željka Žigovečki Gobac (Croatia). The meeting began with the Chair repeating the concerns of a number of the delegates that we do not have representatives from many of the major gem-producing countries, such as Brazil. The Chair will ask IMA representatives to forward names of potential delegates for these countries. Other items discussed at the meeting include the following:

1. FROM IMA-14: ATLAS OF GEM DEPOSITS AND NOMENCLATURE SUBCOMMITTEES

There was much discussion of the Atlas of Gem Deposits. Jim Shigley suggested that the first question we should ask is “what do we want it to provide?” The most difficult thing might be determining boundaries. We discussed setting it up as on online wiki, but we would have to control who is allowed to make changes. Vladimir Beranec graciously volunteered space on their server in Croatia, and students to maintain the web site. There would be a link to the Atlas on the CGM web page on the IMA site. The Gemological Institute of America graciously offered location information and references from their upcoming and previous review articles in *Gems & Gemology*. Lee Groat pointed out that Scott Ercit at the Canadian Museum of Nature has created a vast data base of mineral specimen localities with positional information (UTMs?). This could be useful. There was also discussion about creating a web site of upcoming events of gemmological interest.

2. ABBREVIATIONS FOR GEM MINERALS

We discussed creating a list of recommended varietal names and abbreviations, in collaboration with the ICA and other trade organizations. This would help eliminate confusion.

3. JOINT PROJECT WITH THE COMMISSION OF MUSEUMS ON A CATALOGUE OF UNIQUE GEMS

There was some discussion that “unique” is not the correct word. We discussed creating a

web page with contact information and links for all world gem museums. We could ask the Curators to nominate their five top specimens and describe these on the web page.

4. PARTICIPATION IN IGC

We discussed participation in a gem material session at the 34th International Geological Congress, 5-10 August 2012, Brisbane, Queensland, Australia. There is a theme Mineralogy/gemstones listed in the IGC forward program, so this would be a good avenue to increase the active program of the IMA CGM. Lin Sutherland is willing to act as a facilitator in helping organise such a session with the Australian IGC committee.

5. OTHER BUSINESS

There was some discussion that we don't meet enough. The Chair volunteered to keep track of upcoming meetings and who will be attending.

Subsequent to the meeting Jim Shigley graciously agreed to become Secretary of the Commission.

IMA
Commission on Mineral Growth and Interface Processes
(CMGIP)
2010 Annual Report to IUGS

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

Current Officers

Chair: Katsuo Tsukamoto

Vice-Chairman: Andreas Luttgé

Secretary: Jeanne Paquette

Corresponding member in the Council: Sergei Krivovichev

IMA
Commission on Museums
(CM)
2010 Annual Report to IUGS

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

Chair: Lydie Touret
Vice-Chairman:
Secretary: Peter Davidson (new)
Corresponding member in the Council: Joel Grice

From the CM Chair (13 January 2011):

The mission of the IMA CM, which counts 37 representatives for each national society, all members of IMA, is to foster recognition of mineral science collections as essential scientific, educational and cultural resources, promote support for growth, maintenance and use of collections and exhibits, and finally advance museum practice through cooperation in the development, review and dissemination of information. It keeps the catalogue of type minerals, in close contact with the IMA Commission on New Minerals.

The commission on Museum meets officially alternatively every two years : at the IMA General Meeting and at the International Conference on Mineralogy and Museum(e.g MM 7 in 2012). Several times a year, a great mineral show occurs: Tucson (Az, USA) in February and München (Germany) in November give opportunity for coming together of curators, university mineralogists, and other people with interests in mineral. Since 2001 a group of mineral museum curators meets at the Munich Show established by the European Branch of curators.

A catalogue of type mineral specimens (CTMS) or a complete listing of type mineral and their depositories is now currently available through internet.;

During the next IMA meeting in Budapest, the CM will devote a special interest to the history of mineralogy, through a special session on "Mineral Museums and historical mineralogy". It will also hold business meetings, for the organisation of the next MM7 in Freiberg, Germany. If at those meetings, only national representatives can vote, the debates are open to anyone interested in the preservation and attractive display of the Earth's treasures.

Minutes
of the Commission on Museums (IMA-CM) Business meeting
August 21, 2010

The Business Meeting of the Commission on Museums (IMA-CM) took place in the framework of the IMA2010 Conference, in the Mineral Hall of the Department of Mineralogy (Eötvös L. University Budapest) on Saturday, Aug. 21, from 16.00 to 17.30 h.

11 Commission members or their representatives attended the meeting:

Lydie Touret (Chairperson) (France), Uwe Kolitsch (Austria), Jan Cempírek (Czech Republic), Renate Schumacher (Germany), Yasayuki Banno (Japan), Dana Pop (Romania), Nicolas Meisser (Schweizerland), Jörgen Langhof (Sweden), Mike Rumsey (UK).....

Observers and invited guests: Jeffrey de Fourestier (Canada), J.-C. Boulliard (France), Marek Michalik (Poland), Corina Ionescu (Romania, IMA-CGM)

Lydie Touret, the CM Chairperson, welcomed the participants and chaired the meeting. The meeting had the following Agenda:

1. Invitation to a common project with IMA-CGM
2. Proposal for M&M 7
3. Membership issues
4. News from museums
5. Closing

1. Invitation to a common project with IMA-CGM

On behalf of Commission on Gem Materials (IMA-CGM), Corina Ionescu has invited the CM members to contribute to a common CGM & CM project represented by the Online Gems Catalogue. This will be included on the CGM homepage (to be established by the end of the year). The homepage would include links to mineral museums that host gem collections. The invitation is open to all museums worldwide. The CM homepage (under construction, by N. Meisser) will also include a page dedicated to gems.

[**Comments:** the Gem Catalogue would need clear definitions for terms such as: “gemstones”, “cut gems” etc. (L. Touret); one advantage of such a website would be that it could show also non-displayed gems (de Fourestier J.).]

2. Proposal for the M&M 7

Two applications for hosting the 7th edition of the “Mineralogy and Museums” (M&M 7) conference were submitted during the M&M 6 (Denver, USA), on behalf of colleagues from Scotland and Germany. Currently, only one application is registered, on behalf of Germany (Working group on Mineral Museums of the German Mineralogical Society). Details on the conference, to take place in Dresden in 2012, were offered by the main organiser, Renate Schumacher (University of Bonn) via an attractive PowerPoint presentation. The interesting scientific programme will be completed by several field trips including the most important mineralogical sites and museums in Germany. The 1st Circular will be issued in April 2011.

3. Membership issues

a. New Secretary of IMA-CM

Lydie Touret informed the participants that Dermot Henry has resigned from the position of CM Secretary. As a consequence, Peter Davidson (National Museums of Scotland and Secretary for Europe of the Society of Mineral Museum Professionals, SMMP) was invited to take this job; Peter Davidson has accepted.

[**Comment:** each year, the SMMP Europe has a Business meeting within the Munich Mineral Show, where participation is open to all curators, not only to SMMP members (L. Touret)].

b. New members in IMA-CM

Austria: **Uwe Kolitsch** (Naturhistorisches Museum Wien) has been appointed (his nomination has to be still confirmed by vote).

China: the situation of the representative in the CM has to be clarified

Czech Republic: Milan Novak was replaced by **Jan Cempírek** (Moravian Museum, Brno)

Japan: Michiaki Bunno was replaced by **Yasuyuki Banno** (National Institut of Advanced Industrial Science and Technology)

Poland: Michak Sachanbinski was replaced by **Adam Szuszkiewicz** (University of Wroclaw, Institute of Geological Sciences)

Romania: **Dana Pop** (Babeş-Bolyai University Cluj-Napoca) has been appointed, replacing Victor Gorduza (her nomination has to be still confirmed by vote).

Sweden: Per Nysten was replaced by **Jörgen Langhof** (Swedish Museum of Natural History, Stockholm)

UK: Chris Stanley was replaced by **Mike Rumsey** (Natural History Museum).

4. News from museums

All the participants to the meeting were invited to share news from their museums. A brief summary is presented below, according to the main topics:

Catalogue of type minerals: currently, there is an inflation of information on type materials, e.g. “New minerals discovered in Switzerland” (2007) has included also information on the depositories for type materials (N. Meisser). Type specimens from China: data collection was not easy, but a report was recently prepared and submitted to the CM. There is a joint agreement with the IMA-CNMNC that for all the new species information on the type specimens (no., depository) has to be included (J. de Fourestier).

[Comment: This information is progressively included in the Catalogue of Type-Minerals, edited by the Subcommission on Type Minerals (CM-CTMS). All the CM members are asked to contribute (L. Touret).]

New spectacular acquisitions, new exhibitions:

- tiger eye, Western Australia and Gold exhibition (R. Schumacher, Mineralogical Museum of the Rheinische Friedrich-Wilhelms-Universität Bonn Poppelsdorfer Schloss);
- new presentation, in English, and a new lightning system (LED-based) for all the exhibitions (U. Kolitsch, Naturhistorisches Museum Wien);
- gem collection donation and Jade exhibition. In 2011, two new exhibitions are planned: Meteorites, and Illustrations of Minerals (N. Meisser, Musée cantonale Géologie Anthropole-Dorigny, Lausanne);
- new displays in the collection (Geological Survey of Japan, Tsukuba);
- the new gem exhibition has attracted a large number of visitors, and through its location at the end of the gallery it also reinforces interest on other displays (M. Rumsey, NHM);
- a new exhibition was prepared for IMA2010, on pegmatites, related to field trip CZ2; a new storage will be opened in about 3 years, and a new exhibition hall is planned to be opened in about 5-10 years (J. Cempírek, Moravian Museum, Brno);
- an exhibition on meteorites and asteroids was opened in 2009, while in 2011, on the occasion of the Year of chemistry, the relation between minerals and chemistry will be presented in a new exhibition (J.-C. Boulliard, Sorbonne Musée, UPMC)
- new acquisitions by exchanges with collectors, mines (J. Langhof, Swedish Museum of Natural History, Stockholm)
- Night of Museums 2010 – a new meteorite exhibition resulted from an EU-funded research project; affiliation of museums to such initiatives is an efficient way to promote our collections to the public (D. Pop, Babes-Bolyai University Cluj-Napoca)
- New historical exhibition on J.-P. Alibert at the MinesParisTech (École des Mines, Paris).

Public outreach: the Friends of Museum Associations at Naturhistorisches Museum Wien provided significant sponsorship (U. Kolitsch). Private museums and mineral shows are of growing interest in Poland (M. Michalik).

Analytical services: usually provided free of charge to private collectors, based on a prior agreement on specimen donation (N. Meisser, J. Langhof, M. Rumsey, de Fourestier); however such requests only rarely provide the collections with good specimens as donations (J.-C. Boulliard). For some analyses (e.g. XRD) there is a fee charged (30-40 EUR) (R. Schumacher, J. Langhof), especially if the service is requested by a legal body – case in which a full report is also provided; in other cases, measurements are free but provided only in the framework of a common project (L. Touret).

Collections management databases: an internal database at NHM (EMU) is suitable for general use, if other museums are interested (M. Rumsey).

Scientific research: special interest in type materials and new minerals discovered on old specimens (M. Rumsey); reinvestigation of historical collections (J. Langhof), or of old French samples from the systematic collection (L. Touret).

Publications: “Coffee table book” with the best specimens in the collection and other famous publications are on sale in the museum (J.-C. Boulliard)

5. Closing

D. Pop has launched an invitation to all the participants to join the SMMP Reception during to the IMA2010 museum-related Poster session (on Aug. 24). Lydie Touret invited Poland to maybe host M&M 8 (2016) and closed the meeting, thanking all the participants.

Next CM-BM meeting

The next CM-BM meeting will take place during the München Mineral Show 2010, on Oct.

INTERNATIONAL MINERALOGICAL ASSOCIATION

Commission on Museums Report from Dermot Henry, Past Secretary (four year activity)

Since the meeting in IMA meeting in Kobe, Japan 2006 the Commission has:

1. Held the Mineralogy and Museums conference in Golden Colorado, September 2008. There were insufficient National delegates to hold a formal commission meeting at this conference.
2. Held Ad hoc meetings have been held in conjunction with the Denver, USA; Tucson, USA and Munich, Germany shows.
3. Has received a detailed proposal to host the Mineralogy and Museums conference in Germany in 2012. This will be ratified in Budapest at the IMA General meeting. The Commission Delegate from Japan has indicated that Japan may be interested in hosting a Mineralogy and Museums conference in 2016.
4. The commission will sponsor a session on Mineralogy in Museums at the General meeting in Budapest.
5. The CATALOGUE OF TYPE MINERAL SPECIMENS (CTMS) requires further updates to the website.

The Dermot Henry will be standing down as Commission secretary at Budapest General meeting but will remain the Delegate for Australia.

Dermot Henry
Museum Victoria, Australia

IMA
Commission in New Minerals, Nomenclature and Classification
(CNMNC)
2010 Annual Report to IUGS

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

1. Current Officers

Chair : Peter (Pete) A. Williams (Sydney, Australia)
Vice-chair (changes in existing nomenclature): Frédéric Hatert (Liège, Belgium)
Vice-chair (general classification matters) : Marco Pasero (Pisa, Italy)
Secretary: Stuart J. Mills (Vancouver, Canada)

11 January 2010

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

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 and groups.

3. ORGANISATION

Officers for 2010

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 Budapest, Hungary in September 2010. The next meeting will be during the M&M7 in Germany in 2012.

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 (discreditations and redefinitions) and classification issues (including groups), and the Secretary coordinates the subcommittees created to examine the nomenclature of mineral groups. The 34 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 solely via the internet. 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). In collaboration with Bob Downs, he is involved in the updating of the RRUFF database of minerals.

5. CHIEF ACCOMPLISHMENTS IN 2010

Activities

By January 01 2011, the CNMNC will have dealt with 88 new-mineral proposals for the 2010 year. The high number of new minerals is carried over from the previous year (97). It appears that this high level of activity will be sustained for some time.

Members will also have deliberated on and approved several nomenclature proposals including:

1. Discreditations: "orthobrochantite" and "paraspurrite" discredited.
2. Renamings: alumopharmacosiderite renamed to pharmacalumite. 3 other renaming proposals are currently under consideration.
3. Nomenclature of mineral groups:
 - (a) tourmaline supergroup; nomenclature passed, awaiting publication;
 - (b) pyrochlore supergroup; nomenclature passed, published in CM June 2010;
 - (c) apatite supergroup; nomenclature passed, published in EJM March 2010;
 - (d) alunite supergroup; nomenclature passed, published in MM Nov 2010;
 - (d) amphibole supergroup; to be sent to members August 2010, waiting for revisions.

Other CNMNC subcommittees were operational during 2010:

1. Hydrotalcite (Chairman: Stuart Mills, Canada)
2. Garnets (Chairman: Anton Chakhmouradian, Canada)

Major changes to CNMC procedures:

1. Early publication of mineral names: published in Mineralogical Magazine February 2010;
2. Establishment of the CNMNC Newsletter: published in Mineralogical Magazine February 2010;
3. Establishment of rules for group nomenclature: published in EJM October 2009.

New members

New members for Slovakia and Russia replaced long serving members

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, a forum aimed at collectors and amateur mineralogists, but also used by professionals to discuss mineralogical issues.

Technical meetings

No technical meetings were held in 2010.

6. PROBLEMS ENCOUNTERED IN 2008

In 2010 Ernie Nickel passed away and thus maintaining the IMA list which was under his control needed to be sorted out. Since then, the work has been undertaken by Bill Birch and Marco Pasero

and within the next few months it is hoped that the list will be up to date.

7. WORKPLAN FOR 2010

Activities

It is anticipated that the number of new mineral proposals, nomenclature revisions and discreditations will continue to be high. New subcommittees are being established to replace the ones that have completed their work and several are near completion. It continues to be a very active period in mineralogical sciences.

8. OFFICERS AND NATIONAL REPRESENTATIVES

Officers

see p.15

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IMA
Commission on Ore Mineralogy
(COM)
2010 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 :Chris Stanley

Vice-chair : Andy MacDonald

Secretary: Federica Zaccarini

Corresponding member in the Council: Frances Wall

10 December 2010

This report covers aspects of IMA-COM activities since the date of the last annual report (December 2009).

COM Officials 2010-2014

The following nominations of officials to serve COM in the period 2010-2014 were accepted at the IMA-COM Business meeting held during the IMA meeting in Budapest, Hungary, August 2010:

Chairman: Chris Stanley, c.stanley@nhm.ac.uk

Vice-Chairman: Andy McDonald, amcdonald@laurentian.ca

Secretary: Federica Zaccarini, 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.

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. COM worked with the committee of the 20th General meeting of the International Mineralogical Association, Budapest, August 2010, in the organization on two scientific sessions and one short course.

COM activities in 2010

The last business meeting took place during the 20th General meeting of the International Mineralogical Association, Budapest, August 2010. Minutes will be available on the commission webpage shortly: <http://www.gsf.fi/domestic/com/ima-com>.

During this meeting the new officials to serve COM in the period 2010-2014 were elected. The decision to update the list of national representative was taken. The list of the national representative has been updated on December 2010. (see the appendix at the end of this report). Following a series of e-mail messages with the IMA Secretary-General, it seems that regarding the National Representatives (NR), it is clear that to have NR from countries not affiliated to IMA is not against the IMA Constitution. Therefore, in accordance with "Article 13c - Chairmen of Working Groups, thus appointed, will be entitled to invite such other members of the Working Group as they deem appropriate. They should aim to build a nucleus of enthusiastic experts in the field of the Working Group, while endeavouring to maintain as wide an international membership as possible." and the spirit of inclusivity, the officers are agreed that if there are no serious expressions of dissent we invite the representatives who have volunteered themselves in the absence of actual or credible national nominating organizations to be NRs with full voting rights on our Commission.

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

Scientific sessions:

1) EG52: Platinum group minerals in the new millenium

Convenors: Andrew M. McDONALD, Aberra MOGESSIE, Oskar THALHAMMER

Sponsored by: IMA Commission on Ore Mineralogy (IMA-COM)

Brief description of the session:

A session dedicated to expanding our current state of knowledge on a variety of topics relating to the crystal chemistry, synthesis, geochemical character, geological occurrence and beneficiation of platinum group minerals.

Details:

Platinum group minerals, the important reservoirs of platinum-group elements at the earth's surface, are represented by rather limited number of species (<110). Given the high demand for PGE from the technology sector owing to their application as catalysts, biomedical tools (e.g., anti-cancer drugs) resistance to corrosion, high electrical conductivity, etc., the interest in better understanding the chemistry, mineralogy and geological occurrences of these minerals has been growing at an exponential rate. While it has been more than 250 years following the discovery of the first PGM (platinum, from the Choco district, Columbia) and scientists have come to better understand certain facets regarding the formation and redistribution of PGE in mafic to ultramafic environments in the form of PGM, a tremendous number of questions still remain unresolved. For example, is the occurrence of PGM nanoparticles entirely responsible for the incredible variety of PGM that may be found growing as submillimetric aggregates in chromites from S-poor, ultramafic environments? What are the mechanisms by which PGM in sulphide-saturated systems crystallize? How does hydrothermal alteration impact on the chemistry of PGM that develop? With

so many of the known PGM being poorly characterized and lacking crystal-structure data, how diverse is this group? As we still know little regarding chemical variations that occur in PGM solid solutions, how does this impact on defining the conditions under which synthetic PGM are generated? Do all PGM necessarily behave under the same beneficiation processes? This session is broadly directed at all researchers interested in PGM from a large number of perspectives. We invite perspective participants who are working on the chemistry, mineralogy, synthesis and beneficiation of platinum group minerals, along with those studying the myriad of geological occurrences of these minerals (mafic-ultramafic, hydrothermal, alteration) to consider contributing presentations to the session. Given that world demand for PGE still remains high, that mechanisms relating to the manner in which PGE are fractionated and redistributed from the mantle to the crust is still lacking, and that knowledge of the types and variety of PGM that accommodate PGE remains poor, we anticipate considerable interest in this session. It should also be clearly stated that the overriding goal of this session is to provide a forum that will stimulate discussion, debate and a broader appreciation for the complexities associated with PGM.

2) GP81: Volcanoes: The mineral factory

Convenors: Alexandru SZAKÁCS, Masaaki SHIMIZU, Yuri TARAN

Sponsored by: IMA Commission on Ore Mineralogy (IMA-COM)

Brief description of the session:

The session addresses all topics related to mineral occurrence and genesis in volcanic environments, including rock-forming minerals, minerals of the hydrothermal alteration, ore minerals and minerals formed from volcanic and post-volcanic exhalations.

Details:

Volcanoes and their vicinity represent a very special geologic environment for mineral genesis on Earth. Magmatic processes related to magma ascent, storage and eruption operate at various levels of the volcanic system and result in the formation of both intrusive and extrusive rocks consisting of common rock-forming major and accessory minerals of a wide spectrum of compositions, crystal sizes and morphology depending on magma composition and evolution. They are important carriers of information about deep processes of magma evolution, as well as eruptive processes. Mineral physics and chemistry studies are indispensable tools of the modern volcano research. Volcanic edifices and their shallow basement commonly host hydrothermal systems displaying a large spectrum of features related to hydrothermal alteration of both magmatic and non-magmatic rocks, and to ore-forming processes, all of them resulting in complex mineral assemblages. Contributions related to all aspects of mineral genesis in the volcano hydrothermal system are welcomed. Gas-phase emanations of erupting, quiescent or even extinct volcanoes are the source of another important class of mineral genetic phenomena. Volcanic sublimates may contain sometimes exotic populations of rare minerals governed by gas compositions and local deposition conditions

Short course

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

Details:

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

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

Sponsors: IMA-COM, NAWI-Graz, University Centre of Applied Geosciences Styria (UZAG)

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

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

Length (days): 4

Brief summary: The course will include:

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

No. of sessions: to be announced later

No. of participants: maximum 25

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

More than 20 scientists, from Europe, Asia, Africa, Australia and Latino America, participated to this short course

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 2010, the website has been updated. Regarding COM website development, the person responsible, Kari Kojonen, during the Budapest meeting, explained that the COM virtual ore microscopy is still under construction. Several 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 Selenide-Tellurides

A draft report of the Selenide-Telluride' sub-commission was presented by Kari Kojonen during the Business Meeting of IMA-COM (Budapest, 2010).

SUMMARY OF THE COM ACTIVITIES (2006-2009)

COM activities in 2006

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

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

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

Session 16: 'Mineralogy of Ore Deposits'. Conveners were: Nigel J. Cook (Norway), Kari Kojonen (Finland), Hiroharu Matsueda (Japan), Roland K. W. Merkle (South Africa) and Masaaki Shimizu (Japan). A total of 34 abstracts were accepted and published in the Program and Abstracts volume;

17 oral presentations were given (Wednesday 26th July) and 17 poster presentations were given (Thursday 27th July).

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

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

COM activities in 2007

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

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

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

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

- 2. Au-Ag telluride-selenide deposits (organised by COM) Conveners: Kari Kojonen, Nigel Cook
- 3. Platinum group mineralogy organised by IGCP 486 and COM) Conveners: Andy McDonald, Kari Kojonen

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

'Automated Technologies in Ore Mineralogy'.

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

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

COM activities in 2008

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

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

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

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

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

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

explained that the COM virtual ore microscopy is still under construction. Andy McDonald, Hassan Helmy and other national representatives present at the meeting, offered their help for the development of this important aspect of the COM web site. Kari Kojonen will be sending instructions to all the national representatives regarding format and accompanying descriptions, as soon as possible.

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

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

6) *Report of COM Selenide-Tellurides*

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

COM activities in 2009

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

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

Scientific sessions:

- EG52: Platinum group minerals in the new millenium
Conveners: **Andrew M. McDONALD, Aberra MOGESSIE, Oskar THALHAMMER**
Brief description of the session:

A session dedicated to expanding our current state of knowledge on a variety of topics relating to the crystal chemistry, synthesis, geochemical character, geological occurrence and beneficiation of platinum group minerals.

- GP81: Volcanoes: The mineral factory

Convenors: **Alexandru SZAKÁCS, Masaaki SHIMIZU, Yuri TARAN**

Brief description of the session:

The session addresses all topics related to mineral occurrence and genesis in volcanic environments, including rock-forming minerals, minerals of the hydrothermal alteration, ore minerals and minerals formed from volcanic and post-volcanic exhalations.

Short course

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

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

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

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

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

3) 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 2010, 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.

4) Report of COM Selenide-Tellurides

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

Workplan for 2010, with perspectives for 2011-2012

In the next term (2010-2012), COM will continue to organize scientific sessions within large international scientific meetings. COM will redouble its efforts to organise short courses where they have not been held previously (particularly in developing countries).

COM Short courses and sessions

In the following, a selection of congresses and short courses of potential interest for COM, are listed:

1) ECROFIXXI, August 8-11, 2011, Leoben, Austria
<http://ecrofixxi.unileoben.ac.at/Home.html>

2) GOLDSCHIMDT 2011, August 14 - 19, 2011, Prague
<http://www.goldschmidt2011.org/themes>

Theme 11: Earth's resources : Ores (Jan Pasava, Keiko Hattori)

11f: Natural and Synthetic Platinum-Group Minerals (PGM): Tracers of Processes at High and Low Temperatures

Convenors: Oskar Thalhammer, Federica Zaccarini, Anna Vymazalova

20h: Abundance and Distribution of Critical High-Tech Metals in Ore Minerals

Convenors: F. Michael Meyer, Jens Gutzmer

3) XIV Congreso Latinoamericano de Geología, 29 de agosto-2 de septiembre de 2011, Medellín (Colombia)

<http://www.14clg.com/site/index.php?lang=es>

Sessions

10. Exploración de minerales, contribuciones a los depósitos minerales y metalogénesis

Coordinadores

Gloria PRIETO RINCÓN – INGEOMINAS

Juan Carlos MOLANO MENDOZA – Universidad Nacional de Colombia, Bogotá

Reinaldo BRITTO – **Compañía de Pesquisa de Recursos Minera** (CPRM)

Luis Carlos MANTILLA FIGUEROA – Universidad Industrial de Santander (UIS)

Oswaldo ORDOÑEZ CARMONA – Universidad Nacional de Colombia, Sede Medellín

14. Mineralogía aplicada y de mena

Coordinadores

Thomas CRAMER – Universidad Nacional de Colombia, Bogotá D.C.

Harald G. DILL – **University Mainz**, Alemania

Federica ZACCARINI –, **University of Leoben**, Austria

Short course

Spanish is the official language of this course

9. Introducción a la petrografía de mena y aplicaciones al estudio de depósitos minerales

Por: Dra. Federica ZACCARINI – **University of Leoben**, Austria

Dr. Giorgio GARUTI – **University of Leoben**, Austria

Prof. Juan Carlos MOLANO MENDOZA

Universidad Nacional de Colombia, Bogotá, D. C.

4) 11th Biennial SGA meeting Antofagasta CHILE, 26-29 Sept. 2011

<http://www.sga2011.ucn.cl/>

5) International GNM-GABeC School on: Minerals and Biosphere September 27-30, 2011,

Campiglia Marittima (LI), Italy

http://www.socminpet.it/minbio2011/organizing_en.html

Other projected activities

(1) Further development of the 'Virtual Ore Mineralogy' website.

(2) A more proactive role in ensuring quality control of reported ore mineralogical data in the future.

(3) 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.

Federica Zaccarini
Secretary, IMA-COM

IMA-COM Officers 2010-2014

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COMMISSION ON ORE MINERALOGY International Mineralogical Association

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

List of National Representatives (updated December 2010)

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.

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IMA

Commission on Physics of Minerals (CPM)

2010 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

Chair: Eiji Ohtani
Vice-Chairman: Daniel Neuville
Secretary: Suzan Schorr

Corresponding member in the Council: Takamitsu Yamanaka

Report of CPM activity in 2010: 2010 12/7

1. Commission of Physics of Minerals

The current officers of the CPM are Eiji Ohtani (ohtani@mail.tains.tohoku.ac.jp) as Chairman, Daniel Neuville (neuville@ipgp.jussieu.fr) as Vice-Chairman and Susan Schorr (sschorr@uni-leipzig.de) as Secretary. The members of the commission were renewed at the 2nd business meeting of IMA2010 Budapest. Besides the three Officers, the commission has 15 members. The members are given below.

We also created four sub-commissions: 1) Earth deep interior, 2) Glass and melt studies and their applications to geosciences and industry, 3) Spectroscopy, diffraction, and new instrumentations in mineral physics, 4) Theoretical and computing mineral physics. Members of the sub-commissions are listed below.

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. Main accomplishments in 2010

(1) CPM played following active roles in international and local meetings during 2009-2010.

CPM organized and convened sessions in the following meetings:

Activities for CPM are as follows:

1. CPM sponsored: Global-network symposium on Earth's dynamics @ Akiu, Miyagi, Japan: Ohtani organized the symposium on March, 2nd-4th, 2010: participants were representatives from ENS Lyon, GL CIW, Sobolev Inst., IES Taiwan, and Tohoku Univ.
2. Deep Carbon Cycle symposium @ Beijing April 3-6, 2010: Ohtani made an invited talk on "Effect of Carbon and Hydrogen on Phase and Melting relations and Melt Properties at High Pressure"
3. Deep Carbon session @JpGU meeting @Makuhari May 22-26: Ohtani organized a session on Deep Carbon Cycle with Hemley (GL) and Tatsumi (Jamstec)

4. Don Dingwell,, Paul. D. Asimov , and E. Ohtani, organizes a session“Molten Earth”
5. B. Raynard, Nakajima, E. Ohtani organized a session “Water in the subduction zone in big mantle wedge” as a JpGU-EGU joint session.
6. Invited talk at 2010 Goldschmidt conference @ Noxville, June 14-18, 2010: Ohtani made an invited talk of the title “Application of in situ X-ray observations to melting and melt properties at high pressure”.
7. A keynote talk @SEDI meeting @Santa Barbara, July 18-23, 2010: Ohtani made a keynote talk on “Chemical and physical properties and thermal state of the core and lower mantle” at the meeting
8. WPGM (Western Pacific Geophysical Meeting) @Taipei, June 22-25, 2010: Ohtani worked a member of the program committee on the section of VGP-AGU and convened a session on “Structure and properties of the melts and glasses on the Earth’s surface and interiors” with Sun-Keun Lee, and Mysen
9. CPM sponsored five sessions @ IMA2010 Budapest meeting, Aug 21-28, 2010: Ohtnai convened a session on “Planetary core” with Fei and Steinle-Neumann.
8. CPM sponsored at the EGU-2010 Vienna, Formation, evolution and properties of Melts and Magmas: from lab to Nature. Conveners: Max Wilke , Diego Perugini, Roberto Moretti , Daniel Neuville , Cristina De Campos
9. CPM sponsored at the Goldschmidt-2010, Knoxville, Structure and Properties of Silicate Melts, Glasses and Fluids Conveners: Xianyu XUE, Mark Ghiorso, Grant Henderson
10. CPM sponsored at the IMA-2010, Budapest, Structure and properties of silicate glasses and melts: From laboratory to volcanic activities. Convenors : G.S. Henderson and D.R. Neuville
11. CPM promote since 2008 a virtual issues of the American Mineralogist “Amorphous Material” coeditor G.S. Henderson and D.R. Neuville
12. Organizer : Susan Schorr (conference chair); the 16th International Conference on Ternary and Multinary Compounds (ICTMC-16), Berlin, Germany, September 2008
13. Session organizer, Susan Schorr : session „materials for renewable energy for a sustainable society”, European Congress on Advanced Materials and Processes (EUROMAT), Glasgow, GB, September 2009
14. Organizer, Susan Schorr: the joint topical session „photovoltaic materials” of the annual meeting of the German Physical Society (DPG), Regensburg, Germany, March 2010
15. Co-organizer, Susan Schorr: the 17th International Conference on Ternary and Multinary Compounds (ICTMC-17), Baku, Azerbaijan, September 2010
16. Invited talk by Susan Schorr: *Kesterite - an alternative absorber material for thin film solar cells*, International Union of Crystallography International Congress, Osaka, Japan, 2008
17. Invited talk by Susan Schorr: *Thin film solar cells*, Graduate School of Excellence MAINZ – Materials Science in Mainz, Mainz, Germany, 2009
18. Invited talk by Susan Schorr: *Neutrons and photons in photovoltaic materials research*, 5th Conference on Materials Science and Condensed Matter Physics, Chisinau, Moldova, September 2010

4. Work plan for 2011

1) IMA-CPM and Physics and Chemistry of Minerals (Springer journal):

CPM and CPM sub-commissions will produce a stronger tie with PCM journal by submitting proposals for proceedings volume of IMA-PCM related and other meetings.

2) **Four sub-commissions:** We created four sub-commissions, and their members, chair and vice chairs.

Four sub-commissions and their members are:

1. Earth deep interior
 - C. McCammon (Chair, BGI, Uni. Bayreuth), catherine.mccammon@uni-bayreuth.de
 - T. Inoue (Vice-chair, GRC, Ehime Univ), inoue@sci.ehime-u.ac.jp
 - E. Ohtani (Tohoku Univ.), ohtani@m.tohoku.ac.jp
 - B. Reynard (ENS Lyon), bruno.reynard@ens-lyon.fr
 - J. Bass (Illinois Univ.), jaybass@illinois.edu
 - Paola Comodi: University of Perugia: comodip@unipg.it

1. Glass and melt studies and their applications to geosciences and industry
 - G.S. Henderson (Chair: Depart. Geology, Univ. Toronto), henders@geology.utoronto.ca
 - H. Behrens (Vice-chair; Institute for Mineralogy, Univ. Hannover):
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2. Spectroscopy, diffraction, and new instrumentations in mineral physics
 - L. Dubrovinsky (Chair: BGI, Univ Bayreuth), Leonid.Dubrovinsky@Uni-Bayreuth.DE
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 - G. Amthauer (Dept. Material Engineering and Physics, Salzburg Univ.),
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3. Theoretical and computing mineral physics
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 - T. Tsuchiya (Vice-chair: GRC, Ehime Univ.); takut@sci.ehime-u.ac.jp

3) CPM will make following works for promoting the activities on Mineral Physics Following

1. CPM organizes sessions at 2011 JPGU International symposium to be held in 22-27, May 2011. (1) Ohtani convene a session "Asteroidal collision from meteorites and experimental works" with Makoto Kimura and Yangting Lin. (2) Ohtani, Kagi, and Tatsumi convene "Deep Carbon Cycle" session at the meeting. (3) Neuville, Suzuki, and Sung Keun Lee convene a session "Glass and Melts: from lava up to industrial process".
2. 2010 AGU fall meeting, Dec 13-17 in San Francisco: Ohtani make an invited talk on Deep dehydration beneath a big mantle wedge.
3. SMEC 2011 meeting@ FIU, March 27- April 2, 2011: Eiji Ohtani and Yingwei Fei convene a session "Origin and evolution of the planetary mantle and core".
4. 2011AOGS meeting@ Taipei, August 8-12: Ohtani convene a session "Exploring the Earth's Interior from atomic to global scale" with Jennifer Kung, Baosheng Li, and Xang Wu.
5. C. McCammon and T. Irifune and others convene a session "Physics and Chemistry of Earth Materials and Implications for Earth Structure and Processes" in the XXV IUGG General Assembly - Earth on the Edge: Science for a Sustainable Planet (Melbourne, Australia, 28 June - 7 July 2011).

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IMA Working Group on Environmental Mineralogy and Geochemistry (WGEMG) 2010 Annual report to IUGS

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

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Vice-Chair: Mihaly Postfai

Secretary: Eva valsami-Jones

Corresponding member in the Council: Anhuai Lu

Four year report prepared by David Vaughan, outgoing Chair

19 August 2010

[IMA Working Group on Environmental Mineralogy and Geochemistry](#)
[- report of activities \(July 2006 -August 2010\)](#)

Officers:

Chairman: David J. Vaughan

Vice- Chairman: Tom Sato

Secretary: John Jambor (until 2008)

Anne J. B. Thompson

History:

The Working Group was first proposed by Ian Parsons and the IMA Council in 2004. Activities of the embryonic Group included organising a session on "Mineralogy and Geochemistry of Acid Mine Drainage and Metalliferous Minewastes" at Goldschmidt 2005 (Idaho); publication of a collection of papers as a special part- issue of *Applied Geochemistry* (Vol 21, pp1249-1334, 2006), and organisation of the session on "Environmental and medical Mineralogy" at IMA2006 (Kobe).

Mission:

The scope, definition and remit of WGEMG was discussed at Kobe and subsequently, after further discussions, the following was adopted:

Environmental mineralogy and geochemistry is an interdisciplinary field dealing with systems at, or near, the surface of the Earth where the geosphere comes into contact with the hydrosphere, atmosphere and biosphere. This is the 'environment' on which plants and animals (including humans) depend for survival and which can be disrupted by human activity, particularly that associated with exploitation and utilization of Earth's resources. It deals with those systems containing minerals that constitute key environments (modern sediments, soils, atmospheric aerosols, parts of certain micro and macro organisms including the human body). Both pure systems and those contaminated through human activities are

considered, and with emphasis on a fundamental (predictive) understanding of such systems at scales which can range from molecular to global. The full armory of modern analytical, imaging, diffraction, spectroscopic and computer modeling techniques are employed. Examples of specific topics within the remit of environmental mineralogy and geochemistry include: release, transport and dispersal of toxic wastes from mining and industry (including the nuclear industry) and the safe containment of such wastes; mineral based atmospheric aerosols; minerals in the human body; geochemistry and human health; preservation of minerals and rocks in culturally important buildings and artefacts.

This mission statement was published in the magazine “Elements” (vol. 3, p145) along with the following statement:

The recently established *IMA Working Group on Environmental Mineralogy and Geochemistry* (WGEMG) is seeking to promote this new field through organization of relevant sessions at international conferences, short courses, specialist publications, networking and an internet presence. The officers of the WGEMG and other scientists involved believe that mineralogy and geochemistry have a central role to play in the larger field of environmental science, and in tackling the many environmental problems faced by humanity in the 21st century.

And with contact addresses and numbers and information on the IMA website where further details of WGEMG are published.

Conferences and Meetings:

Conference Sessions organized or contributed to –

Goldschmidt 2008 (Vancouver) 2 day session on
“Geochemistry and Mineralogy of Metalliferous Minewastes”
(organized in honour of John Jambor)

Also presence at Goldschmidt 2007 Koln, “Frontiers in Mineral Sciences”, Cambridge 2007 (“Minerals in Contaminated Environments” session)
IGC 2008, Oslo (invited lectures from WGEMG Chairman and others)

Sessions organized for IMA2010 –

EM60G: Environmental mineralogy and geochemistry, biomineralogy, health (general)

EM61: Mineralogy of minewastes and contaminated soil

EM62: Contaminated land and sustainable remediation

EM63: Mineralogy and geochemistry of the nuclear fuel cycle

Publications:

162 page special issue of *Applied Geochemistry* (Vol. 24, p2211-2373)
“Geochemistry and Mineralogy of Metalliferous Minewastes: an issue
in honour of John Jambor” A. Thompson and D. J. Vaughan (Guest Editors)

Also promoters of ‘Elements’ magazine issues on ‘Toxic Metals in the Environment: the Role of Surfaces’ and on “Atmospheric Particles” and future issue on “Minewastes”

Future Activities:

A wide range of future activities are under discussion and these include:

- * a greater internet presence including internet exchanges to link the potential WGEMG community more effectively
- * developing a 'list' of classic books and reference articles ('primers') for this new area
- * publications including short articles (for 'Elements' and other such outlets as well as more conventional conference proceedings
- *Sessions at planned conferences (Goldschmidt; national meetings etc); possible short courses

IMA Working Group on Inclusion in Minerals (WGIM) 2010 Annual report to IUGS

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

Current officers:

Chairman: Prof. Pei Ni

Vice-Chair: Fanus Viljoen

Secretary: Ronald Bakker

Corresponding member in the Council: Ekkehart Tillmanns

The final report on the activities of the WGIM for 4-years (2006- 2010)

prepared by the outgoing Chair Serguey Z. Smirnov.

(15 december 2010)

The Working Group on Inclusions in Minerals (WGIM) is a sub organization of the International Mineral Association (IMA). Through convening international conferences, organizing training short courses and other activities, the WGIM carries its missions to bring mineral inclusion researchers together for academic exchange, promoting technological awareness and technology development in mineral inclusion researches and therefore to support researches in related fields including but not limited to mineralogy, petrology, mineral deposit study, geochemistry, astrochemistry, tectonic geology, and petroleum geology, etc.

The WGIM was instituted in July 1986 during the 14th General Meeting of the IMA at Stanford, California, USA. Since then, the WGIM has been dedicating in organizing scientific conferences, training programs and other activities in promoting researches on inclusion in minerals around the world.

The current term of WGIM began in 2006 during the 19th IMA in Kobe, Japan. Sergey Smirnov (Novosibirsk, Russia) was elected for the Chairman, Pei Ni (Nanjing, China) the Secretary.

Summary of the current term's activities:

I. WGIM Business Meetings

1. In Aug. 2007, the first business meeting was held in Melburn, Australia. Dr. Smirnov and Prof Pei Ni discussed work plan for 2007 to 2010, which included convening a session on fluid/melt inclusions in Geological Congress (IGC), Oslo 2008, Norway, persistent support on the organizing of ACROFI, 2008, India and hold a session on fluid/melt inclusions in next IMA meeting, 2010, Hungary.

2. The second meeting was in Aug. 2008 in Oslo, Norway where Dr. Smirnov and Prof. Pei Ni discussed invitation of new members of WGIM and information activity of the group.

3. The third Business Meeting was held in Budapest, Hungary in the course of IMA 2010 meeting on August, 23. The style of the meeting was different from those held in last several years.

WGIM members Prof. Sergey Smirnov (Russia), Chairman, Prof. Pei Ni (China), Secretary, Prof. Ronald Bakker (Austria), Prof. Fanus Viljoen (South Africa) and one Bulgarian representative participated in this business meeting.

The aim of this meeting was to analyze work of WGIM and to propose IMA Council WGIM officers for the next term. At the meeting it was decided that one of the major task for the nearest future is a renewal of WGIM membership.

The attendees agree that the major direction of the WGIM activity is organization and participation in organization of scientific events, e.g. conferences, thematic sessions, etc, in order to focus attention of researchers from different areas of the mineralogy and petrology to the study of inclusions in minerals.

It is important to note that international community of inclusion researchers has already established a set of meetings, which make a core for activity of inclusion research scientific community: biannual European Current Research on Fluid Inclusions conference, biannual Pan American Current Research on Fluid Inclusions conference, and biannual Asian Current Research on Fluid Inclusions conference. The latter was established under the patronage of WGIM.

In the course of the business meeting Prof. Pei Ni (Nanjing University, China) was proposed as a new-term Chairman of the working group, Prof. Fanus Viljoen (University of Johannesburg, South Africa) – as new-term Vice Chairman and Prof. Ronald Bakker (University of Leoben, Austria) – as a new-term Secretary.

I I. WGIM Participation in Meetings

1. In 2008 Aug WGIM was sponsoring a session MPM13 Inclusions in minerals at 33 IGC in Oslo, Norway. Sergey Smirnov (Chairman of WGIM) and Pei Ni (Secretary) were conveners. 18 abstracts were submitted from which 5 were accepted for oral presentation and 11 – for posters. 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.

The session was not as big as at the previous Congress. This is explained by extreme conference activity related to inclusions in minerals in 2008 (3 international conferences). However the presented papers initiated lively discussions in the course of the Session and after it.

2. In 2010 August at the IMA 2010 General Meeting WGIM sponsored organization of the thematic session DE45 Fluids in the Earth. This session was convened by Prof. Csaba Szabo (Eotvos University, Budapest, Hungary), Prof. Robert J. Bodnar (Virginia Tech University, Blacksburg, USA) and Prof. Sergey Smirnov (WGIM Chairman, Institute of Geology and Mineralogy SB RAS, Novosibirsk, Russia). The session collected 31 abstracts, from which 14 was chosen for oral and 17 – for poster presentation. Prof. Jacques Touret (Ecole des Mines, Paris, France) and Prof. Bernardo Cesare (University of Padova, Italy) presented invited talks. The topics of the talks and posters covered wide scientific area, including upper mantle fluids and melts, liquid immiscibility and mantle metasomatism in subduction zones, experiments on mineral formation in the fluid-rich systems, ore-metal transportation, deep and high-grade metamorphism, etc.

3. In 2010 September under sponsorship of WGIM 3rd biannual Conference on Asian Current Research on Fluid Inclusions was successfully held in Novosibirsk 15-21 September, 2010. This conference was joined with Conference on Thermobarogeochemistry which is traditional biannual forum for Russian fluid and melt inclusion researchers. Organizing

Committee collected about 150 abstracts. 80 participants from 13 countries (Russia, China, India, Iran, Japan, USA, Germany, Switzerland, Austria, Australia, Portugal, Slovakia, Hungary) contributed their talks and posters, which Organizing Committee has divided between one General and 9 thematic sessions. The majority of talks and posters were collected by sessions "Hydrothermal and magmatic ore formation", IGCP 540 seminar "Compositions of fluids of orogenic gold deposits from state-of-art fluid inclusion microanalysis, and application to mineral exploration" and "Magmatic melts and fluids". Two post-conference field trips were organized in the Altai Mountains, about 500 km far from Novosibirsk. The Conference information was highlighted in the Russian scientific and public mass media.

Editorial Board of Russian Geology and Geophysics supported the idea about publication of papers from ACROFI III&TBG XIV conference as a special issue. Russian Geology and Geophysics is a bilingual (Russian and English) scientific journal. The English version is published by Elsevier. Guest editors of the special issue are prof. Cs. Szabo, S. Smirnov and V. Sharygin. The deadline for manuscript submission is December, 25, 2010.

Scientific Committee of the ACROFI III&TBG XIV decided that next ACROFI meeting will be in Australia in 2012. At the Committee meeting in Novosibirsk it was decided to make ACROFI as a meeting joined to 34 IGC in Brisbane.

This term's WGIM administration is coming to the end. I would like to thank everyone for support during all these years. During all these four years, the IMA Secretary Dr. Maryse Ohnenstetter had provided continuing assistance and support to the WGIM. The WGIM officers are thankful for her help.

Sergey Z. Smirnov, Chairman, Prof. Novosibirsk State University and Institute of Geology and Geophysics SB RAS, Novosibirsk, Russia

Pei Ni, Secretary, Prof. Nanjing University, Nanjing, China

IMA Working Group on Mineral Equilibria (WGME) 2010 Annual report to IUGS

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

Current officers:

Chairman: *Alexei L. Perchuk*

Vice-Chair: Larissa F. Dobrzhinetskaya

Secretary: Oleg G. Safonov

Corresponding member in the Council: C. Srikantappa

14 December 2010

Official activity

1. The WGME business meeting was held during IMA-2010 in Budapest (23.08.2010). During the meeting the WGME have selected new officials.

Chairman. Prof. Alexei L. Perchuk, Moscow State University, Geological Faculty, Department of Petrology, 119991, Moscow, Russia; alp@geol.msu.ru

Vise-chairman. Prof. Larissa F. Dobrzhinetskaya, Institute of Geophysics and Planetary Physics

Department of Earth Sciences, University California at Riverside, Riverside CA 92521, USA; larissa@ucr.edu

Executive Secretary. Prof. Oleg G. Safonov, Institute of Experimental Mineralogy, 142432, Chernogolovka, Moscow district, Russia; oleg@iem.ac.ru

As a result, the WGME has changed both Chairman and Vise-chairman.

2. Prof. C. Srikantappa (University of Mysore, India) is selected as the new correspondent of the WGME in the IMA council.

Activity in 2010

During 2010 the WGME organized and participated in the following events:

1. A special session GMPV19/GD2.14 entitled "Interplay between metamorphism, magmatism and geodynamics" was organized within the EGU-2010 meeting in Vienna, May 2-7, to commemorate an outstanding contribution to petrology by late Prof. Leonid Perchuk.

Conveners: L.Y. Aranovich, Institute of Ore Deposits, Moscow, Russia (lyaranov@igem.ru); T.V. Gerya, ETH Zentrum, Zürich, Switzerland (taras.gerya@erdw.ethz.ch); A.L. Perchuk, Moscow State University, Moscow, Russia (alp@igem.ru); O.G. Safonov, Institute of Experimental Mineralogy, Chernogolovka, Russia (oleg@iem.ac.ru).

2. 6th Annual International School on Earth Sciences – 2010 (ISES-2010) (2-9 September, Odessa, Ukraine). The School was organized by the Department of Petrology of Moscow State University and the Department of General and Marine Geology of the Odessa National University. More than 50 scientific and teaching lectures have been presented by professors, researchers, and young scientists from diverse Russian State Universities (Moscow, Irkutsk, Ulan-Ude, St.-Petersburg, Petrozavodsk, Miass), Ukrainian National University (Odessa), Research Institutes of Russian Academy of Science (Institute of Experimental Mineralogy, Institute of Ore Deposits Geology, Institute of Precambrian Geology, Institute of Mineralogy of Ural Branch of RAS, Institute of Geochemistry Siberian Branch of RAS). More than 20 undergraduate students, PhD students and young scientists from Russian and Ukrainian

universities attended the I.S.E.S. Further information on the 6th I.S.E.S. and next-year 7th I.S.E.S. can be obtained from the new official Internet site <http://www.ises.su>.

3. A book "Ultrahigh Pressure Metamorphism: 25 years after the discovery of coesite and diamond", Eds: L. Dobrzhinetskaya, S.W. Faryad, S. Wallis, S. Cuthbert) will be issued in Elsevier at March, 2011.

Planned activity in 2011

1. The WGME has applied for organization of two special sessions at the Annual Goldschmidt Conference in Prague, Czech Republic, August 14-19, 2011.

(i) "Chlorine and chlorides in the upper mantle and lower crust: geochemical, petrological and experimental evidences", Conveners: V.S. Kamenetsky, O.G. Safonov, L. Y. Aranovich,.

(ii) "Deep subduction of crustal rocks into the mantle: observations, experiments, models" Conveners: L. Dobrzhinetskaya, W. Faryad, A. Perchuk, T. Gerya

2. The WGME participates in Scientific Conference "Granulite and eclogite complexes in the Earth's history" in Perozavodks, Russia, June 16-18, 2011.

3. 7th Annual International School on Earth Sciences (ISES-2011) – (2-9 September, 2011 Odessa, Ukraine) is being prepared by WGME.

Executive secretary of the WGME

Prof. Oleg G. Safonov



IMA Working Group on Solid Earth Composition and Evolution (WGSECE) 2010 Annual report to IUGS

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

Current officers:

Chairman: *Andrew C. Kerr*

Vice-Chair: *Pat Castillo*

Secretary: *David Peate*

Corresponding member in the Council: Robert Downs

10 December 2010

Solid Earth Composition and Evolution Working Group Report 2009-10

Throughout the last 18 months we have sponsored the following events:

September 2009: *Physical and geochemical constraints on the origin of the Caribbean plate*
– held at Cardiff University.

This was attended by ~60 people and provided an excellent opportunity to discuss and review our current understanding of the plate tectonic evolution of the Caribbean.

December 2009: *Oceanic plateaus through time: Formation, preservation and environmental impacts* – Oral and poster sessions at Fall AGU in San Francisco

These well-attended sessions generated lively debate particularly on the emerging results from the recent IODP drilling of the Shatsky Rise

Future meetings

A call has gone out to SECE committee members to nominate sessions at international meeting which might be sponsored by SECE. Committee members have also been asked to consider organising SECE-sponsored meetings and workshops.

SECE will be the main sponsor of a meeting which is proposed to be held at the Geological Society of London in February 2012 entitled 'Mass extinctions: causes and effects'

Recent Publications

September 2009: *Recent developments on seafloor petrology and tectonics: A volume in honour of Roger Hekinian for his life-long contributions to marine petrology and tectonics research*

Lithos, Volume 112, Issues 1-2.

This was a SECE-Sponsored special issue.

March 2009 *The Structure of the Lithosphere: the petro-geophysical approach*
Lithos Volume 109, Issues 1-2.

This special issue resulted from a SECE-sponsored workshop held in Merrickville in Ontario, Canada, 7–10 March 2007.

Royalties agreement with Elsevier

SECE has had a long-standing (20 year) royalties agreement with Elsevier, whereby SECE received royalties per published page of SECE-sponsored special issues of *Lithos* or *Chemical Geology*.

In mid-2008 Elsevier indicated to us that they were not prepared to continue with this agreement. The Chairman had a meeting with Friso Veenestra from Elsevier at the Fall AGU in San Francisco in Dec 2008 and it was suggested that Elsevier might be prepared to financially support a bi-annual SECE workshop on a particular theme as a replacement for the royalties agreement. Unfortunately, however, in subsequent negotiations with Elsevier over the past two years it has become clear that they do not wish to financially support SECE either through a royalties agreement or through meeting sponsorship.

Despite this, SECE still has a considerable reserve of capital with which we can promote our activities for several further years and we are in the process of approaching other publishers as potential sponsors of SECE.