ANNUAL REPORTS FROM IMA COMMISSIONS AND WORKING GROUPS ACTIVITIES YEAR 2004

(1) COMMISSION ON APPLIED MINERALOGY (CAM) -

OFFICERS - Chairman: Richard D. HAGNI
Vice-Chairman: Eric PIRARD
Secretary: Henrique KAHN
Corresponding member in the Council: Marcello Mellini
(attached document 31/1/5)

IMA-Committee on Applied Mineralogy
Agenda for CAM Business Meeting
Held at ICAM-2004 in the Paesaggio room at the Valence Hotel
Aquas de Lindoia, Brazil
September 21, 2004

1. Introductions of attendees at this business meeting, review of national delegates, and the preparation of a list of all attendees with addresses, e-mails, phone numbers, etc.

2. Brief history of IMA-CAM (and its interaction with ICAM)

About 1979, a group of applied mineralogists, mostly at MINTEK in South Africa approached IMA asking for a commission on applied mineralogy and were turned down. In response, the South Africans organized the International Council for Applied Mineralogy (ICAM) and held its first, very successful, ICAM meeting in Johannesburg.
Although IMA officials suggested at the ICAM business meeting at Johannesburg that ICAM become a commission within IMA, the officers of ICAM elected to continue ICAM as a separate entity.
CAM was organized about the time of the first ICAM meeting and held its first sessions at the IMA-Stanford, United States meeting in 1986. Two sessions on applied mineralogy were sponsored by CAM at the IMA-Stanford meeting.
IMA-Beijing, China-1990 - CAM sponsored 7 sessions
It was decided at ICAM-Perth, Australia-1993 that ICAM meetings would be held every 4 years one half way between IMA quadrennial meetings
IMA-Pisa, Italy-1994 - CAM sponsored 2 sessions
IMA-Toronto, Canada-1998 - CAM sponsored 2 sessions
IMA-Edinburg, Scotland-2002 - CAM organized portions of 3 session (see details below).
IMA-Kobe, Japan-2006 - CAM has suggested co-sponsorship of 8 sessions (see details below).

3. CAM sponsored one session (and >45 posters) on Applied Mineralogy at the quadrennial International Congress Meeting in Rio de Janario, Brazil in 2000
Dick Hagni

4. CAM helped organize three sessions for IMA-Scotland-2002 on New Materials, Gem materials, and cathodoluminescence microscopy, but all three were combined with other sessions in the final organization of the meeting.
Henrique Kahn

5. Sessions suggested to organizers of IMA-Kobe, Japan-2006 meeting
A. Suggested CAM co-sponsorship of the following 6 planned sessions:
Mineral (session 25) - microbe interaction and biomineralization
Environmental mineralogy (session 27)
Clays and zeolites: Natural and synthetic materials (session 28)
Ceramics with advanced physico-chemical properties (session 31)
Natural and artificial gem materials (session 35)
Nano minerals/materials in earth and planetary sciences (session 40)
B. CAM also recommended an additional session on: Quantitative Mineralogy
C. CAM also agreed with IMA-COM to co-sponsor a proposed session on: Applied Ore Mineralogy
The IMA organizational committee meeting in August, 2004 will determine eventual list of sessions selected and committee sponsorship.

6. CAM helped sponsor a short course taught by Dogan Paktunc at CANMET in Ottawa, Canada at the annual Canadian Mineral Processors (a division of the Canadian Institute of Mining) meeting in Ottawa, Canada on January 19, 2004 - co-sponsored by IMA-CAM and ICAM. The course covered an overview of the tools, techniques, methodologies and state-of-the-art developments in the use and application of mineralogy in metallurgical processing. Presentations included: 1) quantitative mineralogy, 2) mineral liberation, 3) microanalysis, 4) characterization of mineral surfaces, and 5) applications on hydrometallurgy, diamonds, uranium, and process tailings. The short course was sponsored by the Canadian Institute of Mining and co-sponsored by IMA-CAM and ICAM. The short course was highly successful, attracted about 60 participants from mining and metallurgical companies, universities and research organizations. Dogan has received very good feedback about the short course and has been invited to offer it again in alternate years.
Dogan Paktunc

7. Short course on Digital Image Analysis for Geologists was offered for IGC-Florence, Italy-2004. The short course was to be co-sponsored by CAM. The proposed course was to deal with the capabilities offered by image analysis in microscopy, image acquisition, filtering data, and quantification. This course and other short courses for IGC-Italy were cancelled shortly before the meeting.
Eric Pirard

8. Sponsored short course on "Applied Mineralogy of Mineral Raw Materials" organized by Henrique Kahn at University Sao Paulo (USP), May, 2004. This was the 6th in a series of annual short courses offered by Henrique at USP.
Henrique Kahn

9. CAM co-sponsored the ICAM-Brazil-2004 quadrennial meeting, short courses on Workshop Image Anaysis on Applied Mineralogy and Quantitiatve X-ray Diffraction by Rietveld Method, and field trips to Carajas Fe, Mn, and Cu-Au Ore Deposits, Vale do Ribeira's Alkaline Province, Agate and Amethyst in Volcanic Rocks of Parana Basin and Brazilian Gemstones.

10.The CAM web site is shared with ICAM at "Applied Mineralogy on Line" web site: http://www.appliedmin.org
The IMA-CAM web site is located at: http://www.appliedmin.org/private/cam.htm
The web site is maintained by Henrique kahn. A review of the web site will be done after ICAM-2004.
Henrique Kahn

11. Preparation of mailing list of individuals interested in applied mineralogy. Send names and addresses to Henrique Kahn

12. Definition of Applied Mineralogy
Eric Pirard

13. Agreement of ICAM to meet quadrennially exactly between quadrennial IMA meetings and the conflict with the IMA recent decision to consider the quadrennial IGC meeting as the place for two-year commission and working group business meetings.

Henrique Kahn, secretary
Eric Pirard, vice chairman
Dick Hagni, chairman

(2) COMMISSION ON CLASSIFICATION OF MINERALS (CCM)

OFFICERS - Chairman: Yu PUSHCHAROVSKY
Vice-Chairman: Ernest NICKEL
Secretary: Andy Mc DONALD

Corresponding member in the Council: Werner Schreyer
(attached document 20/12/04)

Summary of the activity of CCM (2004)

The main activities of the Commission in 2004 can be summarized as follows:

1) The CCM was among the main organizers of the General symposium G 15.03 titled "Crystal structures of minerals: topology and classification" (convenors: D.Pushcharovsky, E.Tillmanns)- IGC-32 in Florence (2004). The convenors elaborated the program of this symposium which comprised more than 30 oral and poster presentations.

2) The new proposal to standardise mineral groups were elaborated by D. Yu. Pushcharovsky, M. Pasero, E. H. Nickel and G. Ferraris.

3) Two business meetings were held in Paris on Sept 7, 2004, one of which was held jointly with the Commission on New Minerals and Mineral Names. Subjects of particular importance discussed at the meetings were the criteria to be used in establishing mineral groups, and collaboration with the CNMMN on matters of mineral classification.

4) CCM proposed to modify the title of the session 8 (IMA meeting in Kobe, 2006): “Crystal structures, topology and classification of minerals”

5) A protocol has been established for voting on policy matters. It was supported by the majority of the CCM.

6) The membership list has been reviewed and updated.

Chairman of CCM
D.Yu.Pushcharovsky

Co-chairman of CCM
E.Nickel

(3) COMMISSION ON MINERAL GROWTH AND INTERFACE PROCESSES (CMGIP)

OFFICERS - Chairman: Cornelis WOENSDREGT
Vice-Chairman: Katsuo TSUKAMOTO
Secretary: John ROKOVAN

Corresponding member in the Council: Alain Baronnet

(attached document)

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(4) COMMISSION ON GEM MATERIALS (CCM)

OFFICERS - Chairman: Margherita SUPERCHI
Vice-Chairman: Lin SUTHERLAND
Secretary: Takeshi Miyata

Corresponding member in the Council: Maryse Ohnenstetter
(attached document 14/4/04)

Report on IMA Commission on Gem Materials Activity for 32nd IGC (IMA) Meeting, Florence, Italy, 20th-28th August, 2004.

The IMA Commission on Gem Materials has had extensive correspondence with the national delegates leading up to the IMA (IGC) meeting in Florence in August, 2004.

A call for papers for the Symposium on Gem Materials G 15.10 proved very successful and drew 42 contributions from 13 countries. The contributing countries included Russia 13, France 4, Canada 4, Brazil 4, China 4, Italy 3, UK 3, Australia 2, Croatia 1, US 1, Portugal 1, Japan 1 and Romania 1. The time allocated for Session G 15.10 allowed a selection of 14 oral presentations and a poster showing of 28 presentations.

The oral program will include a keynote presentation by Dr Emmanuel Fritsch, University of Nantes - IMN-CNRS, France Metropolitan. Other presentations were allocated 15 minutes duration each with a few minutes question time. The date for the symposium was set by the IMA Organisation Committee for the morning and afternoon of Wednesday, 24th August. All the contributors to the symposium were scheduled to receive advice as to the status of their mode of presentation.

During the meeting week (20-28th August) the Gem Materials Commission plans to hold two meetings with its national delegates to discuss present and future matters of commission activity. One particular item for discussion will involve the contribution of the Gem Materials Commission to the IMA website (http://www.ima-mineralogy.org).
F.L Sutherland
Secretary

Additional reports from the CGM (12/8/4)
Gem Materials Commission will discuss a draft for the "GLOSSARY OF GEM MATERIALS "during our first meeting on the 23rd and then we will go on again on the occasion of the second meeting planned for the 25th of August. This represents something new and very important for our field and, at the same time, it will be a difficult task to be
discussed and agreed. Anyway is something that must be done and I hope we will be able at least to reach a first basic glossary to orient people respect the correct names. In past I asked to officers of New Names and Mineral Names Commission about it, but they definitely told that names of gemstones are not included in their programs.

(5) COMMISSION ON MUSEUMS (CM)

OFFICERS - Chairman: Lydie TOURET
Vice-Chairman:
Secretary: Kay U. SCHUERMANN

Corresponding member in the Council: Ian Campbell
(attached document 24/11/04)

Report about the activities of the CM for the year 2003/2004

1. The annual Ad-Hoc – Meeting of the IMA – Commission on Museums (CM) was held on October 31st , 2003 in Munich during the Munich fare. 27 curators from 9 countries attended the meeting (Minutes will be added as attachment).

2. The 5th International Conference on Mineralogy & Museum, September 5-8, 2004 in Paris (France) was sponsored by CM and CNMMN. The Chairwoman of the CM – Dr. Lydie Touret (Paris School of Mines) headed the organisation of the conference and she and her team did an extraordinary job. It was an extremely estimable conference with about 150 participants from 27 countries presenting 46 oral and 41 poster contributions. There was a good mixture of participant ages and the lecture hall was always filled in spite of the attractiveness of Paris. A postconference field trip to the Savoyan Alps from 9th to 14th September lead by Dr.Giancarlo Parodi (Paris) was attended by 23 persons from 8 countries.

3. During this conference an official buisiness meeting has been held on September 8th, 2004 (Minutes will be added as attachment).

4. The CM noted up to now 4 applicants for M&M6 in 2008:

   St. Petersburg School of Mines (Russia)
   St. Petersburg University (Russia)
   Lisbon University (Portugal)
   Colorado School of Mines Denver (USA)

Marburg, November 17th, 2004
Kay U. Schuermann
Secretary of the CM

Commission on Museums

Minutes from the CM Commission Buisiness Meeting, Paris, September 2004

The meeting was held during the M&M5 International Conference 2004 in Paris on Wednesday, September 8th from 8 am to 9 am at the Paris National School of Mines.

12 Commission members or their representatives (r) attended:

France – Lydie Touret (Chairwoman), Germany – Kay Schuermann (Secretary), Switzerland – Nicolas Meisser, Sweden – Per Nysten, Norway – Fred Steinar Nordrum, Australia – Dermot Henry, Canada – Paula Piilonen, Belgium – Herman Goethals, China – Zhuming Yang (r), United States – Anthony Kampf, Netherlands – Ernest Burke (r), Japan – Michiaki Bunno. Guests included: Monique Brunet – France, Gary Mason – United States, Masahiro Aoki – Japan, H.A. Stalder – Switzerland.

The Chairwoman of the Commission and of the Conference – Lydie Touret – opened the session with some short but hearty words and mentioned around 150 scientists from 26 countries joining the Conference. These figures were very impressive as the date for M&M5 was forced to September by IMA in connection with the earlier date of the IGC Florence.
In addition there was no financial sponsering of this traditional Conference of CM and CNMMN by IMA. Scientists from the following countries showed up first time at M&M:
Albania, Iran, Latvia, and Nigeria.
Paula Piilonen from the Canadian Museum of Nature in Ottawa(Canada), Nicolas Meisser from the Cantonal Museum of Geology in Lausanne (Switzerland), and Herman Goethals from the Royal Belgium Institute of Natural Science in Brussels(Belgium) have been introduced as new members of the commission. The following main topics have been discussed at the buisiness meeting:

CTMS
A final report of the CTMS (Catalogue of Type Mineral Specimens) – work was presented by the retiring chairman of the Subcommission H. A. Stalder (Switzerland) – The Congo, Australia, and Canada have been added to the national lists. The Commission decided to move the chair of the CTMS Subcommission to Nicholas Meisser (Switzerland). There will be a free access of the private databases (Hoelzel) by the CM – website.

CM - Website
The CM – website supported by Anthony Kampf (United States) and always nicely updated –www.SMMP.NET/IMA-CM – will additional open a "general questions – reply" site.

Mineral Heritage for Petrological Sites
The topic "Mineral Heritage for Petrological Sites" initiated by F. Wall (UK) at a former meeting has been postponed because of her absence.

New CM - Officer
The Commission designated Dermot Henry (Australia) as new Secretary to be elected at the Buisiness Meeting(s) during the IMA Conference 2006 in Japan.

IMA 2006
CM will try to sponsor one or two special sessions (possible together with CNMNM) at the IMA Conference 2006 in Japan. First contacts will be established with Masahiro Aoki (Ibaraki, Japan).

M&M6
There have been now 4 invitations for M&M6. In order of receipt:
- St. Petersburg School of Mines (Russia)
- Lisbon University (Portugal)

- St. Petersburg University (Russia)
- Colorado School of Mines (Denver, USA)

The CM Officers will go in contact with all applicants during the next year. A final decision will be made during the Business Meeting(s) at the IMA Conference in Japan 2006.

Open Round Table

Some more information and discussions have been added during an "Open Round Table" topic at the end of the Conference on Wednesday, September 8th, from 5.30 pm to 6 pm. Under the main title: "Museums – New problems, New Concepts Today?" remarks have been made about

- Museums Current Activities
- Relationship between Museums and Associations
- Public or Private Collections
- Private Micromount Collections and its Connections to Museum Scientists (by M.G. Favreau (France)
- A New Place of Petrology in Mineralogical Museums
- The "Geoplanet Earth Year 2006" sponsored by IGS (look at the IGS Website)
- Use of the Periodical System Symbols as Worldwide Mineral Dictionary for
- all Languages
- a suspicious "Organisation of Mondial Mineralogy Monaco", created by a romanian lady related near to UNESCO. A lot of negative comments have been made and could be handled by Michel Guiraud (France)

October 22nd, 2004
Kay U. Schuermann
(Secretary of the CM)

__ MINUTES FROM THE IMA – COMMISSION ON MUSEUMS AD HOC – MEETING, MUNICH, OCTOBER 29th, 2004

This year our annually Ad Hoc – Meeting during the Munich fare was held together with the SMMP (Society of Mineral Museum Professionals) people on Friday, October 29th, 2004 from 4:30 pm in the meeting room A 52.
21 curators from 9 countries attended the meeting.
The meeting was opened by Dr. Lydie Touret (Paris/France) as Chairwoman of the CM and Peter Davidson (Edinburgh/Scotland) as european representative of the SMMP.
Lydie Touret gave a short report regarding M&M5, wich was an extremely estimable conference with about 150 participants from 27 countries presenting 46 oral and 41 poster contributions. There was a good mixture of participants ages; the lecture hall was always filled in spite of the attractiveness of Paris. She noted 4 applicants for M&M6 in 2008: St.Petersburg/Russia (School of Mines and University), Lisbon/Portugal (University), and Denver/Colorado/USA (Colorado School of Mines). The CM will write letters to them in 2005 asking for detailed informations. A final decision will be made at the next CM Buisiness Meeting during the IMA Conference in Kobe/Japan 2006.
Federico Pezotti (Milan/Italy) made critical comments together with some other speakers (J.C. Boulliard/Paris, Carlo Grammaccioli/Milan) about mineralogists who always claim a "Crisis of Mineralogical Museums" and answer to this "Crisis" developing only new gallery exhibitions (only show very few pieces). Amédée Djemai and Lydie Touret (Paris/France) realized a kind of

evolution in the museums of natural history. It can be stated that there are recently two groups of mineralogists encouraged in museum work:
People from "Science", who say that scientific research is split in different fields of mineralogy, but the whole variety have to show in the museums, and impressions of mineralogical sciences have to serve everybody through the museums.
Peoples from the "Gallery" with a philosophy to show only very few but special pieces to bring these impressions to the public.
As part of the "Year of Physics" in 2005 there will be a special exhibition in the Paris School of Mines titled "From Graphite to Carbon".
Stuart Mills (Melbourne/Australia) was claiming for a better inclusion of younger people especially from the highschools in the fields of mineralogy.
Finally Terry Huizing (Cincinnatti/USA) informed the meeting, that the wellknown Dick Bideaux (Tucson/USA) has passed away.
Our special thanks go to the Family Keilmann who made it possible to held our meeting during the Munich fara 2004 and announced the meeting very poperly in the catalogue.

November, 16th, 2004
Kay U. Schuermann
(Secretary of the CM)

(6) COMMISSION ON NEW MINERALS AND MINERAL NAMES (CNMMN)

OFFICERS - Chairman: Ernst BURKE
Vice-Chairman: Giovanni FERRARIS
Secretary: William D. BIRCH

(attached document 21/12/04)
Annual Activity Report 2004

The CNMMN has dealt with 68 new mineral proposals this year. Of these 59 have been sent to members for voting. Up until the end of November, voting was completed on 42 proposals, with 41 approved and 1 suspended. Members' voting participation each month is very high, averaging 85% of the 31 members. The submission rate is very similar to last year (2003) when 70 new mineral proposals were handled for the full year.

The list of minerals approved in 2003 has been published by some journals, and is also available from the CNMMN website. Starting in 2004, approved minerals are listed monthly on the CNMMN website. The Commission has now published on its website the IMA list of 3500 minerals approved, discredited and redefined since 1959. Lists of minerals approved over the past few years have also been added to the website.

The Chairman has also been on the trail of 'missing minerals', those approved by the Commission but not yet published according to the '2-year' rule. As a result of his efforts to contact authors, only 6 minerals approved between 1959 and 2001 are likely to remain unpublished.

CNMMN members also voted to approve changes to mineralogical nomenclature involving wagnerite, triplite and zwieselite, with the discreditation of magniotriplite, and a proposal to discredit spodiosite as a mixture. A proposal to rename cesium kupletskite is currently being considered. Decisions by the CNMMN on new amphibole nomenclature will be published in Canadian Mineralogist (December 2004) and American Mineralogist (March 2005).

Two CNMMN subcommittees are discussing nomenclature of the tourmaline and epidote groups, under the chairmanships of Dr Milan Novak and Dr Thomas Armbruster, respectively. Reports have been promised by the end of 2004. Progress reports of long-running subcommittees on sulfosalts and the pyrochlore group have been submitted recently. A subcommittee on nomenclature in the alunite supergroup, chaired by Peter Bayliss, is also in the early stages of discussion.

The CNMMN has also been engaged in an informal discussion with the CCM on standardisation of the nomenclature of mineral groups. CNMMN members recently agreed that this should proceed, and how this is to be achieved will be explored by both commissions.

The CNMMN held several open meetings at the International Mineralogy and Museums conference in Paris in early September.

Bill Birch
Secretary
21 December 2004

COMMISSION ON NEW MINEALS AND MINERAL NAMES
Notes of meetings held at M&M5 conference, Paris, September 2004.

September 6, 10.50am

Present: Office-bearers (Burke, Ferraris, Birch), Chairman Emeritus (Grice), members (Pasero, Papp, Parodi, Raade, Pertlik, Hatert) and about 12 visitors and observers.

Those present observed one minute's silence in memory of Ivan Kostov, longtime member for Bulgaria, who died recently.

1. Secretary's report on mineral nomenclature subcommittees:

Tourmaline Subcommittee:
This subcommittee was established in mid-2003, under the chairmanship of Milan Novák. A progress report has not yet been received.

Epidote Subcommittee
This subcommittee was initiated in late 2002, under the chairmanship of Thomas Armbruster. Preliminary guidelines for the nomenclature of epidote minerals established by the subcommittee were adopted in the introductory chapter of the recently published review on Epidotes (Reviews in Mineralogy and Geochemistry, #56). It is hoped that work will finish at the end of 2005.

Sulfosalt Subcommittee
This subcommittee was a partnership between the COM and the CNMMN and was established in 1994 under the chairmanship of Yves Moëlo and N.N. Mozgova. Dr Moëlo spoke briefly to the draft report which had recently been submitted (with Emil Makovicky) and which has been posted on the CNMMN website for members to view. It is not complete and a plan is required to finalise it.

Pyrochlore Subcommittee
A draft classification and nomenclature scheme for the pyrochlore group was delivered by Joel Grice on behalf of the subcommittee chairman Scott Ercit. It is anticipated that one more year is required to finish the work.

Amphibole Subcommittee
This subcommittee continues its work under the chairmanship of Bernard Leake. Since the last meeting, there have been two proposals approved by CNMMN members arising from the subcommittee:

1. The establishment of a new (fifth) group of amphiboles to be called the sodic-calcic-Mg-Fe-Mn-Li group.
2. A scheme for the application of new amphibole names.

Alunite Super-group Subcommittee

A suggestion to establish such a group was made by Peter Bayliss early in 2004. Other than information "*the alunite supergroup committee is making progress*", there is no information available on the composition of the subcommittee or its plan of attack.

Unnamed Minerals
Dorian Smith spoke to the report which was recently submitted and is available on the CNMMN website

Nomenclature of Groups
CNMMN members recently agreed to participate with the COM in establishing approved group names. It was decided (narrowly) that group names should apply to a minimum of 3 species, and that the group name should, in general, be that of the oldest, adequately characterised species.

2. Vice-Chairman's report on nomenclature

Giovanni Ferraris reported on the results and voting records for nomenclature changes between September 2002 and August 2004. These are as follows:

02-A: Redefinition of tripuhyite and discreditation of squawcreekite.
02-B: Redefinition of arhbarite.
02-C: Discreditation of elfstorpite, synonymous with allactite.
02-D: Correction of the mineral name 'mahlmoodite' to malhmoodite.
03-A: To limit the use of Schaller modifiers in mineral nomenclature.
03-B: Polytypism in Wagnerite, triplite and zwieselite, and discreditation of magniotriplite.
03-C: Discreditation of spodiosite.
04-A: Rename cesium kupletskite as ceskupletskite.
The amphibole clinoholmquistite has been discredited as a result of a new mineral proposal (fluoro-sodicpedrizite, 2004-002).

All these proposals have been approved by members except for 04-A which is still being decided upon.

3 & 4. Chairman's report on new mineral proposals and missing minerals

Ernst Burke reported that since his appointment on January 1 2003, 126 proposals had been received (84 in 2003, 42 to end of August in 2004), with 65 approved in 2003 and 29 so far in 2004 (9 still with members). Members' voting participation each month is very high, averaging 88% of the 31 members.

The list of minerals approved in 2003 has been published by some journals, and is also available from the CNMMN website. Starting in 2004, approved minerals are listed monthly on the CNMMN website. The Commission has now published on its website the IMA list of 3500 minerals approved, discredited and redefined since 1959. Lists of minerals approved over the past few years have also been added to the website.

The Chairman has also been on the trail of 'missing minerals', those approved by the Commission but not yet published according to the '2-year' rule. As a result of his efforts to contact authors, only 6 minerals approved between 1959 and 2001 are likely to remain unpublished. Of the 60 approved in 2002, 15 remain to be published; the authors of these will be

contacted in 2005 when the 2-year publication rule applies. Of 65 minerals approved in 2003, already 23 have been published.

5. Discussion on polytypes and polymorphs.

Giovanni Ferraris discussed the problems he saw with defining and naming polytypes and polymorphs. It was agreed his proposals should be placed on the CNMMN's open website to invite comments.

6. Discussion on groups with CCM

Ernie Nickel spoke on the situation faced by the CCM when dealing with this matter. He is trying to put the CCM on a basis similar to the CNMMN. Some agreement on the definition of a mineral group might be possible, but the discussion is not expected to come up with a system of IMA-approved classification. Should the CCM be advisory or regulatory?

7. Intended IMA list of grandfathered minerals

Minerals established before 1959 are 'grandfathered' and will exist until they are discredited. There are approximately 1000 such minerals. The de Fourestier list and Mandarino encyclopedia are dealing with these and need to be compared.

8. Announcement from the Chairman

Ernst Burke announced that he had been asked by his institution to retire at the end of 2006.

September 7, 17.50pm

This was intended to be a combined meeting between the CNMMN and CCM.

Present: Office-bearers (CNMMN: Burke, Ferraris, Birch; CCM: Nickel), members (Pasero, Papp, Raade, Pertlik, Atencio) and about 8 visitors and observers.

There was some discussion about the need for the two commissions to cooperate closely, but uncertainty about how to proceed. Each subcommittee has its own procedures. It was agreed that any system should be advisory not regulatory. It was suggested that one way of facilitating action was for the two commissions to merge. This would involve asking the members of each commission to approve such a merger in principle, then seeking IMA approval in 2006.

It was agreed that Ernie Nickel would prepare a draft proposal specifying criteria for grouping mineral species using the Pasero/Puscharovsky discussion document as a reference. Ernst Burke will frame a document relating to the merger of the two commissions and circulate it. Bill Birch was to contact the IMA Secretary for advice regarding the merger of the commissions.

Bill Birch
Secretary CNMMN
12 October 2004

(7) COMMISSION ON ORE MINERALOGY (COM)

OFFICERS - Chairman: Roland K.W. MERKLE
Vice-Chairman: Kari K. KOJONEN
Secretary: Nigel J. COOK

Corresponding member in the Council: Kari Kojonen
(attached document (14/1/05)

COMMISSION ON ORE MINERALOGY
International Mineralogical Association

Report on COM activities for the year 2004

1. COM Business meetings

A short meeting was held August 24th 2004 in Room 7 of the Congress Centre "Forezza da Basso", Florence, 17.30-18.20, during the 32nd International Geological Congress. The meeting was chaired by Dr. Nigel Cook, COM Secretary. 4 national representatives and 6 alternates were present.

The officers of COM held a short, informal meeting on January 7th 2005 in bath, U.K.

2. COM website

COM has created a website 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. COM is committed to providing, on its website, a series of representative images of ore minerals ('Virtual Ore Mineralogy'). The nucleus of a collection of digital images is now in preparation and appropriate, high-quality photomicrographs of ore minerals will be sought from authors who have recently published in the mineralogical literature. The COM website will, in future, also include reports from sub-commissions and a section with links to other ore mineralogy/microscopy resources available online.

3. Scientific sessions at the 32nd International Geological Congress, Florence, August 2004

COM organised three scientific sessions for the 32nd IGC, Florence, Italy, 20th-28th August 2004. These were:

SYMPOSIUM G14 'Mineral Deposits' session on '*Gold deposits in diverse geological environments*' (all-day session, Saturday 21st August).

SYMPOSIUM G15 'Mineralogy' session on '*Telluride and selenide minerals related to gold and platinum group element deposits*', co-sponsored by IGCP project 486 (all-day session, Sunday 22nd August).

SYMPOSIUM G14 'Mineral Deposits' session on '*Conventional and unconventional platinum group mineral deposits*' (Friday 27th August).

4. Joint meeting of IMA-COM and the Applied Mineralogy Group of the Mineralogical Society (U.K.)

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

5. Reports of COM sub-commissions

The sulphosalt sub-commission of COM presented a preliminary version of their full-length report at the COM Business Meeting in Florence. The sub-commission is to be congratulated on their comprehensive work. A final version will be ready during the winter 2004/5.

6. Activities planned for 2005 and 2006

The Short course 'Current methods in applied mineralogy of platinum-group element ores and products' will be co-sponsored by COM and held during the International Platinum Symposium, Oulu, Finland (August 6th 2005), organized by Prof. Louis J. Cabri.

COM has proposed the following sessions for the 19th General Meeting of IMA to be held in Kobe, Japan, July 23-28th 2006:

1. Applied ore mineralogy (COM jointly with CAM).
2. Ore Mineralogy of Au-Te-Se deposits (COM jointly with IGCP-486).
3. Mineralogy of the PGE in surface conditions, including oxides and placers (COM).
4. Ore mineralogy of sulphosalt minerals (Sulphosalt sub-commission of COM).
5. Ore mineralogy of Kuroko type and deep sea sulfide deposits (COM).

(note: these sessions have not yet been confirmed by the Kobe organising committee).

COM had originally intended to hold its next short course on Advanced Ore Mineralogy in Granada, Spain, in October 2005. This has now been cancelled during to difficulties in obtaining funding experienced by the Sociedad Española de Mineralogía, who will host the event. COM hopes that an alternative venue can be found for a short course in 2005 or 2006.

COM will co-sponsor an ore microscopy course in South Africa during 2005 (in conjunction with MINSA and University of Pretoria (venue and date to be arranged).

7. Other activities and initiatives

COM intends to take a more active role in ensuring quality control of reported ore mineralogical data in the future. COM President Roland Merkle has called on 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.

COM has urged individuals to help preserve valuable - and often irreplaceable - collections of polished ore mineral specimens, depositing them, ideally in museums and mineralogical institutions

Nigel Cook
Secretary COM

Oslo, Norway. 14.01.2005

MINUTES OF THE BUSINESS MEETING, FLORENCE, ITALY, AUGUST 24TH 2004

The meeting was chaired by Dr. Nigel Cook, COM Secretary, who also took the minutes. The meeting was held August 24th 2004 in Room 7 of the Congress Centre "Forezza da Basso", Florence, 17.30-18.20, during the 32nd International Geological Congress.

Those attending:

National Representatives

Dr. Nigel Cook, Norway
Prof. Emil Makovicky, Danmark
Dr. Werner Paar (Austria)

Observers/alternates

Dr. Ken McQueen, Australia (alternate)
Dr. Tamas Weisburg, Hungary (alternate)
Alternate for Prof. N. Mozgova (Russia)
Alternate for Dr. Thomas Kerestedjian (Bulgaria)
Dr. Rustam Koneev (Uzbekistan)
Dr. Inna Mudrovska (Ukraine)

1. The chairman Nigel Cook opened the meeting and welcomed the participants. The meeting agenda was accepted. He explained that following a resolution made in Edinburgh, IMA has instructed its commissions and working groups to hold biennial business meetings (International geological Congress / IMA General Meeting). Due to the small number of IMA-COM national representatives attending the 32nd IGC, he stated that this meeting would be brief and aimed at familiarising participants with recent developments and new initiatives, rather than with decision making. A full business meeting will be held during the next IMA General Meeting in Kobe, Japan (2006). Apologies for absence from COM Chairman Roland Merkle and Vice-Chairman Kari Kojonen were recorded.
2. The minutes of the business meeting in Edinburgh (2002) were approved and attendees received a copy of the report on COM activities since the Edinburgh business meeting ('Report on COM activities for the period from the IMA General Meeting in Edinburgh until August 2004'; this document was submitted to IMA council prior to the IGC).
3. The following current and future COM activities were reviewed and briefly discussed:
   - Three sessions convened by IMA-COM were held during the 32nd International Geological Congress. These were: '*Gold deposits in diverse geological environments*', '*Conventional and unconventional platinum group mineral deposits*' and '*Telluride and selenide minerals related to gold and platinum group element deposits*' (the latter jointly

with IGCP project 486). All were most successful and have contributed significantly to raising awareness of IMA-COM worldwide. *(note: short reports on each session - as prepared for the IGC organizing committee - are attached as appendices to this report).*

- A session on "Platinum metals in the urban environment - should we worry?" will be jointly organized by the Applied Mineralogy Group and the Geochemistry Group of the Mineralogical Society and IMA-COM. This forms part of the larger meeting of the Mineralogical Society of Great Britain and Ireland (6-7th January 2005, Bath, U.K.) with the title "Environmental Mineralogy, Geochemistry and Human Health". COM Chairman Roland Merkle will give the keynote lecture 'Large scale PGE anomalies in South Africa and possible mechanisms for the release of PGE to the environment'.
- COM Short Course Workshop in Granada, Spain (2005) to be organized by the Sociedad Española de Mineralogía. The meeting heard that the local organizing committee would make an announcement concerning the workshop during Autumn 2004. *(note: a tentative date for this workshop is yet to be announced).*
- Ore microscopy course, Pretoria, South Africa (2005) to be organized by COM Chairman, Roland Merkle (venue and date to be arranged).
- The Short course 'Current methods in applied mineralogy of platinum-group element ores and products' will be co-sponsored by COM and held during the International Platinum Symposium, Oulu, Finland (August 6th 2005), organized by Prof. Louis J. Cabri.
- COM has proposed the following sessions for the 19th General Meeting of IMA to be held in Kobe, Japan, July 23-28th 2006:
    1. Applied ore mineralogy (COM jointly with CAM).
    2. Ore Mineralogy of Au-Te-Se deposits (COM jointly with IGCP-486).
    3. Mineralogy of the PGE in surface conditions, including oxides and placers (COM).
    4. Ore mineralogy of sulphosalt minerals (Sulphosalt sub-commission of COM).
    5. Ore mineralogy of Kuroko type and deep sea sulfide deposits (COM).

    (note: these sessions have not yet been confirmed by the Kobe organising committee).

4. Virtual ore mineralogy on the COM website. All those present were encouraged to contribute to the success the planned digital library of reflected light micrographs.

5. Reports of COM sub-commissions

- A fully revised report from the sulphosalt sub-commission has been received. The secretary congratulated the sub-commission on their comprehensive work and expressed the wish that parts of the report could be available on the COM website in the near future, and also that the full report could be published as an authoritative source for professionals and students. Dr. Makovicky noted that the report still required a little more work and that the final version will be prepared during the coming autumn/winter.

6. Other business

- Tamas Weisburg emphasized the role COM should play in ensuring that polished ore sections are preserved for the benefit of future generations. Sections could be deposited and catalogued within a number of designated museums around the world.
- The observer from Uzbekistan expressed his wish to join COM, explaining that a formal submission from the Uzbekistan Mineralogical Society to join IMA would be submitted at the IMA business meeting the following day. Dr. Koneev was welcomed as the national representative on COM.

- The observer from Ukraine was welcomed. It was suggested that she be formally recognized by the Ukrainian Mineralogical Society as the national representative in COM.
- The Secretary reminded participants of the recent call by COM Chairman Roland Merkle upon COM members (by e-mail 18.08.2004) to take a more active role in ensuring quality control of reported ore mineralogical data, by joining national committees of ISO (International Organization for Standardization) looking into certain aspects of microbeam analysis, and secondly, by communicating factual or anecdotal evidence they may have about problems encountered in electron microprobe analysis of (ore) minerals, so that guidelines for publishing of electron microprobe data etc. can be prepared in the future.

(8) COMMISSION ON PHYSICS OF MINERALS (CPM)

OFFICERS - Chairman: Georg AMTHAUER
Vice-Chairman: Eiji OHTANI
Secretary: Daniel NEUVILLE

Corresponding member in the Council: Takamitsu Yamanaka
(attached document ()

(9) WORKING GROUP ON INCLUSIONS IN MINERALS (WGIM)

OFFICERS - Chairman: LI ZAOLIN
Vice-Chairman: Mamoru ENJOJI
Secretary: Serguey SMIRNOV

Corresponding member in the Council: Anthony Naldrett
(attached documents (13/7/4 and 3/12/04)

Summary of activities and main projects of WGIM 2003 - 2004

1. At the assistance of IMA, the WGIM was granted to convene Session G-15.11 Inclusions in Minerals of the 32nd IGC in Florence, Italy in August 2004. WGIM Chairman Prof. Zhaolin Li and Secretary Dr. Sergey Smirnov are conveners of the G-15.11 Session.

2. To complete the management of this term of WGIM, we contacted Prof. Mamoru Enjoji from Japan and proposed him to the IMA as the Vice Chairman of the WGIM.

3. Submitted work plan from June 2003 through December 2003 to IMA in June 2003.

4. The WGIM is working on the preparation on the short course on researches and applications on organic inclusions and the 14th National Symposium on Inclusions and Geo Fluids, in associated with the Committee of Inclusions in Minerals of the Chinese Mineral, Petrology and Geochemistry Association. This event is to be in Beijing, China 9-13 October, 2004. The First Circular was sent on Oct. 10th, 2003.

5. Prepared and submitted report on WGIM history for the IMA including major events and names of chairs, vice chairs and secretary of all terms.

6. At the support from IMA, the WGIM is working on the preparation to establish Asian Current Research on Fluid Inclusions (ACROFI). The ACROFI by law, preparation committee members and a report stating the importance of its establishment were completed at the end of 2003. Organization registration request has been submitted to the Chinese authority for approval.

7. Under the guidance of IGC Scientific Programm Committee, Dr. Smirmov and Prof. Li completed the review of 27 abstracts submitted to the G-15.11 Session (Inclusions in Minerals) from Australia, Brazil, Canada, China, France, Japan, Nepal, Portugal, , Russia, and United States. 14 of them were selected for oral presentation and 13 for posts.

8. WGIM participates in cooperation of IAGOD in organisation of the Fluid inclusion subsection in the Interim conference of IAGOD that will be held in Vladivostok on 11-20 of September.

Sincerely yours,
Prof. Li Zhaolin, chairman of WGIM
Sergey Smirnov, secretary of WGIM
(13/7/04)

The summarized report of session G-15.11

1- **SESSION:** G-15.11 Mineral Inclusion (34)
2- **Chairpersons**: Li Zhaolin (Zhongshan (Sun Yat-sen) University, China), Sergey Smirnov (Institute of Mineralogy and Petrography SB RAS Novosibirsk, Russia)
3- **Session description**: Received 27 abstracts from Australia, Brazil, Canada, China, France, Japan, Portugal, Russia, Spain, and United States. After thorough review, 14 were selected for oral presentation and 13 for poster presentation.
4- **Number of abstracts actually presented**: 27(14oral, 13 poster)
5- **Overview of oral presentations**: 10 of the 14 authors orally presented at the session. The topics widely covered four aspects: magma fluid, metamorphic fluid, mineralization fluid and synthetic fluid and emphasized on magma fluid and mineralization fluid.
Magma fluid - Study on fluid and melt inclusions of porphyry copper deposit and alkaline rock Nb, Tb deposit demonstrated magmatic origin of ore deposits.
Mineralization fluid –the discovery and study on fluid and melt inclusions in turbidited hosted gold deposit, ductile shear zone gold deposit, diamond, and pegmatite cassiterite to understand the characters of ore deposit, mineralization material resource and ore deposit origin.
Synthetic fluid – At various temperature and pressure condition, fluid inclusion can be synthesized using quartz.
6- **Overview of poster presentations**:
4 of the 13 abstracts were displayed. Topics were concentrated on melt inclusions in magma rocks. Application of infrared microscope on study of inclusions in opacity minerals was also introduced.
7- **General comments**:
The qualities of the submitted abstracts are fairly high. Most of them are the recent researches conducted by scholars from different countries. The audients of the session were always about 40 to 50 people. 1 to 2 question(s) were brought to each speaker followed by discussions.
New progress on mineral inclusion research include:
* The discovery of melt inclusions in porphyry copper deposits and carbonatite complex and the new theory of magmatic origin of porphyry copper deposit and carbonatite complex related NbTa ore deposit
* The discovery of immiscibility metamorphic fluid and magmatic fluid through studies on inclusions in metamorphic rocks and alkaline ultrabasic rocks
* the character of low salinity in fluid in turbidited hosted gold deposit were reported from mineralization fluid study
* Melt and fluid-melt inclusions were discovered in ductile shear zone gold deposit fro the first time. A new theory of Mineralization associated with metamorphic anatexis multi stage silicate melts and fluid processes was presented* New development on synthetic fluid inclusions and inclusion in diamond.
All these achievements are significant in promoting mineral inclusion research and resolve the mechanism and origin of mineralization and ore deposit origins.
8- **Announcements**:
During the 32nd IGC, WGMI of IMA held two business meetings. It was decided on the meeting that oral presented abstracts will be published as a special issue of Russian Geology and Geophysics. WGMI is working on this issue with related parties.

(10) WORKING GROUP ON MINERAL EQUILIBRIA (WGME)

OFFICERS - Chairman: Leonid L. PERCHUK
Vice-Chairman: Masaki AKAOGI
Secretary: Oleg SAFONOV

Corresponding member in the Council: Ian Parsons

Activity report of the IMA Working Group on Mineral Equilibria (WGME)

Annual report of the IMA Working Group on Mineral Equilibria (WGME) for 2004

During 2004 the WGME organized and participated in the following events:

1. The special session G-15.02 “Mineral thermodynamics, mineral equilibria, and PT-paths” (conveners Prof. Leonid L. Perchuk and Dr. Dirk D. Van Reenen) has been organized at the 32th International Geological Congress (23 August, Florence, Italy). The session included 13 oral and 25 poster presentations.
2. The special volume of Journal of Petrology (2004, V. 45), organized by the WGME, has been published. This volume included extended papers presented to the IMA meeting in Edinburgh 2002.
3. The WGME became an agreement with the Geological Society of America Special Publications for publications of the special volume, which would include extended papers presented to the above 32 IGC special session.

Executive secretary of the WGME Dr. Oleg G. Safonov
(21/12/04)

Mid-term report from the WGME group (12/8/4)
The IMA WGME activity includes two types of managements only: organization of Simposia and publications of their results in the best international scientific journals.
From 2002 to 2004 the WGME
(1) published collection of the best papers, reported to the Edinburgh Session, in "Journal of Petrology", V. 45? No 7, 2004 (Eds. S.L.Harley and L.L.Perchuk),
(2) organized General Session G015 at the 32th IGC.
(3) already managed publication of the results of the Florence Meeting in the book through the Geological Society of America Publication.

(11) WORKING GROUP ON ORGANIC MINERALS (WGOM)

OFFICERS - Chairman: Norbert VAVRA
Vice-Chairman:
Secretary: Waltraud WINKLER

Corresponding member in the Council: Nickolai Yushkin

Mi-term Report about activities of WGOM (Working Group on Organic Minerals):

1) Meeting of the WGOM held during the amber trade fair "AMBERMART 2003" at Gdansk (Poland):

"Amber in Gdansk (mineralogy, archaeology and processing), August, 23rd – 25th, 2003.

2) Technical session of the WGOM, held during the meeting at Gdansk

3) Papers submitted at this meeting have meanwhile been published within volume 47 of Prace Muzeum Ziemi (Warszawa, Poland) thanks to the activity and help of Prof. B. Kosmowska-Ceranowicz, member of WGOM.

4) Homepage of WGOM has been established by Dr. W. Winkler (Salzburg), being secretary of our WG.

5) Bibliography on amber and related topics has been continued and will be included in the forth-coming "Newsletter 5" of our WG, which will be mailed within the next weeks.

6) A new version of our "List of valid and rejected names" is in preparation.

Norbert Vavra, Vienna (June 9th, 2004)

Working Group on Organic Minerals
Newsletter 5/2004

"Editorial"

In the last "Technical Session" of our WGOM on August, 23rd during our seminar 'Amber in Gdansk. Mineralogy, Archaeology and Craftsmanship'. organized in cooperation with 'AMBERMART 2003-Gdansk' we have agreed upon a number of ideas for the future development of our activities. One of the main items discussed had followed a suggestion by Dr. Krumbiegel to revise the still unfinished list of 'Valid and rejected names of organic minerals'. I had promised to prepare such a new list containing mainly ambers resp. 'fossil resins' for our next newsletter already. This activity turned out to be far more time-consuming than expected. Realizing the fact that a number of urgent informations had to be passed on to the members of our WGOM meanwhile, I have therefore decided to postpone this plan for a later newsletter.

Norbert Vávra

Prof. Dr. Miklos Kedves ⊥

On November 6th, 2003 Prof. Dr. M. Kedves (Szeged, Hungary), one of the most active members of our WG died quite unexpectedly. Having had broad scientific interests his memory will survive as editor of "Plant cell biology and development"; among amber specialists he will mainly be remembered because of his studies on ajkaite. Many of his works have remained unfinished and extensive collaborations have ceased. If you should have any questions in this respect, please contact Dr. Istvan Bagi, Department of Botany, Szeged University, P.O.Box 657, H-6701 Szeged (ibagi@bio.u-szeged.hu).

Prof. Dr. hab. Jan Koteja ⊥

On August 19th, 2004 Prof. Dr. Jan Koteja, Department of Zoology and Ecology, Agricultural University, Kraków, has died. He was well known from his numerous papers concerning amber inclusions; he has been the leading specialist for Homoptera (Coccinea). He had been founding member of the Palaeoentomological Group of the Polish Entomological Society and founder of the bulletin "Inclusion – Wrostek". In 2000 he had received the title "Amber Personality of the Year" for his merits in popularizing and development of research on insects trapped in Baltic Amber. Through his sudden and unexpected death amber specialists have not only lost an outstanding specialist but also a personal friend.

Prof. Dr. S. S. Savkevitch ⊥

With deep concern I have the sad duty to inform you that Prof. Dr. S. S. Savkevitch, who had started the initiative to establish our WGOM and who had been chairman since 1985, has died on December 15th, 2003 unexpectedly after a short illness. Those who have not been privileged to be in personal contact with him, will remember him at least as one of the leading experts in amber research and author of the book "Jantar" (1970). For all the others who had known him personally his sudden and unexpected death is moreover a severe personal loss.

New Members for our WG

Changes of Addresses ?!

Realizing that the number of active members of our WGOM has become rather low indeed I am asking you to suggest colleagues as future members for our group. Any cooperative colleague who is willing to support our activities will be welcome.

I would also appreciate very much to receive informations about any possible changes of addresses of members.

Gdansk - August 2003
Meeting of our WG

Following an invitation by Prof. Kosmowska-Ceranowicz, our WG has organized a symposium at Gdansk in August 2003 (August 23rd – August 25th) during AMBERMART'03 under the title:

'Amber in Gdansk. Mineralogy, Archaeology and Craftsmanship'

Local organization had been accomplished by Prof. Dr. B. Kosmowska-Ceranowicz and Mrs. Ewa Rachon (delegate of AMBERIF'03); it is a pleasure to express once more my sincerest gratefulness for all these kind efforts which have made our meeting very successful and pleasant indeed.

Five oral presentations and one poster had been submitted; all these papers – and a number of additional ones – have been published meanwhile under the title 'Prace z zakresu badan nad Bursztynem' in **Prace Muzeum Ziemi,** No. 47, Warszawa (2004). For details see under 'Some new publications on amber and related subjects' (this newsletter).

32nd International Geological Congress
Florence – Italy, August 20 – 28, 2004

Following an invitation by EMU ("European Mineralogical Union") which our WG received during the 18th General Meeting of the IMA at Edinburgh, our group was participating in the 32nd International Geological Congress at Florence (August 20 – 28, 2004).

Within the General Symposium G-15 "Mineralogy" a session on biomineralization and organic minerals had been scheduled under the title:

G-15.09 "Biomineralogy and Organic Minerals"

For this session four oral presentations and eight posters have been submitted. Due to various personal reasons only one member of our working group has finally been able to participate in IGC at Firence: Prof. Kazue Tazaki (Japan) who presented a paper on biominerals from hot springs.

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19th General Meeting of the International Mineralogical Association IMA2006 – Kobe, Japan, July 23 – 28, 2006 (International Conference Center Kobe)

A few days ago I have received an invitation by Professor T. Yamanaka, being chairman for the 19th General Meeting of the International Mineralogical Association (IMA) to be held at Kobe (Japan) in July 2006. These General Meetings are held every four years in one of the subscribing countries. The Kobe Meeting will bring together scientists and researchers in the fields of mineralogy, geochemistry, petrology, mineral deposits, and related areas from all over the world. IMA2006 will be organized jointly by The Mineralogical Society of Japan, The Japanese Association of Mineralogists, Petrologists and Economic Geologists, The Society of Resource Geology, and The Science Coucil of Japan.

Ten plenary lectures will be presented and 40 sessions covering practically all fields of mineralogy, crystallography, petrology, applied mineralogy, etc. will be organized. A number of field excursions will be offered too.

For more detailed informations see:

http://www.congre.co.jp/ima2006/

Or contact the secretariat of the conference:

19th General Meeting of the
International Mineralogical Association
Mr. G. Aoyama, Congress Corporation
Congress Bldg., 3-6-13 Awajimachi Chuo-ku
Osaka 541-0047, Japan
Tel.: +81-6-6229-2555
FAX: +81-6-6229-2556
E-mail: 2006ima@congre.co.jp

Homepage of WGOM

Following a kind suggestion by Dr. Maryse Ohnenstetter, secretary of IMA, Dr. W. Winkler has established a homepage for our WG:

http://www.sbg.ac.at/min/wgom/

Please, support these activities by your personal contributions (lists of publications, etc.); contact in this connection Dr. Winkler:

waltraud.winkler@sbg.ac.at

(New) e-mail addresses/FAX-numbers:

Repeating my request from former newsletters:

I would appreciate very much to receive any necessary up-dating of e-mail addresses and/or FAX-numbers of WG members This would be very helpful for me and would also speed up our activities - as I hope - considerably.

Thank you in advance

e-mail addresses:

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WINKLER Waltraud	**waltraud.winkler@sbg.ac.at**

Some new Publications on amber and related topics: ([2002 – 2004)

I. Books on amber

BICHL, A., GRIEBL, M., LASPERANZA, M. & REISINGER, B. (2003): Erlebnis Archäologie. Carnuntum, Vindobona, Bernsteinstraße. – 160 p., Pichler/Herold.

KNOPP, G. (2003): Das Bernsteinzimmer. Dem Mythos auf der Spur. – 256 p., Hoffmann & Campe.

KOSMOWSKA-CERANOWICZ, B. (2004): Prace z zakresu Badan nad bursztynem. (= Prace Muzeum
Ziemi, **47**: 152 p.

PINEAU, E. (2003): Die Magie des Bernsteins. Das Bernstein-Zimmer von Zarskoje Selo. – 96 p., Brandstätter & Co.

REMY, M. P. (2003): Mythos Bernsteinzimmer. – approx. 252 p., List.

SCHÖN, H. (2002): Das Geheimnis des Bernsteinzimmers. Das Ende der Legende um den in Königsberg verschollenen Zarenschatz. – 256 p., Motorbuch.

TORBUS, T. (2003): Polnische Ostseeküste. Danzig, Special: Strände, Bernsteinsuche. – Polyglott Verlag.

II. General topics

ASCASO,C., WIERZCHOS,J., CORRAL, J. C., LOPEZ, R. & ALONSO, J. (2003): New applications of light and electron microscopic techniques for the study of microbiological inclusions in amber. – J. Paleont., **77** (6): 1182 – 1192.

DIETZ,W., RICHTER, W., SCHÄFER, U. & SCHMIDT, A. R. (2003): Investigation of Microfossils in 100 Million-Year-Old Amber. – Microscopy and Microanalysis **9** (Suppl. 3): 472 – 473.

ENGEL, M. S. (2003): Book Review. The World of the Baltic Amber Forest. (WEITSCHAT, W. & WICHARD, W.: Atlas of Plants and Animals in Baltic Amber). – J. Kansas Entomol. Soc., **76** (3): 537 – 538.

FERGUSON, D. (2003): Book review: Atlas of plants and animals in Baltic amber. – Review Palaeobot. Palynology, **123** (3 – 4): 347 – 348.

GIERLOWSKI, W. (2004): Zrodla surowca na bursztynowy oltarz w bazylice sw. Brygidy Szwedzkiej w Gdansku – porownanie z Bursztynowa Komnata. (= Sources of amber used for the amber altar in St. Bridget's Basilica, Gdansk – comparison with the Amber Room). - Prace Muzeum Ziemi, **47**: 149 – 152.

KAISERLING, E., KAISERLING, K., MÜLLER, K.-M., WEISSERT, R. & BERTHOLD, Chr. (2004): Cell and tissue reactions to amber in man and the rat. Skin morphology and immunological findings. - Prace Muzeum Ziemi, **47**: 129 – 140.

KEDVES,M. & PÁRDUTZ, Á. (2002): Ultrastructure of 100 Million Years Old Microorganisms of the Ajkaite (Upper Cretaceous Amber) from Hungary. – Taiwania, 47 (4): 273 – 280.

KEDVES, M. (2004): LM and TEM investigations on the Upper Cretaceous ajkaite from Hungary. - Prace Muzeum Ziemi, **47**: 27 – 28.

KHARIN,G. S. & LUKASHINA, N. P. (2002): Usloviya obrazovaniya i korrelyatsiya yantarenosnoy Prusskoy svity (verkhniy eotsen, Kaliningradskaya obslast. (= Depositional environment and stratigraphy of upper Eocene amber-bearing Prussian Formation, Kaliningrad Region). – Stratigrafiya, Geologicheskaya Korrelyatsiya, **10** (2): 93 – 99.

KOLENDO, J. (2004): Duze bryly bursztynu w pradziejach I w antycznych cywilizacjach srodziemnomorskich. (= Large amber nodules in prehistory and ancient Mediterranean civilizations). - Prace Muzeum Ziemi, **47**: 141 – 148.

KOSMOWSKA-CERANOWICZ, B. (2004): Holocenskie nagromadzenia bursztynu w rejonie Gdanska (= Holocene amber accumulations in the Gdansk region). - Prace Muzeum Ziemi, **47**: 57 – 61.

KOSMOWSKA-CERANOWICZ, B. (2004): Amber deposits in the Pomeranian Province. - Prace Muzeum Ziemi, **47**: 63 – 72.

KOSMOWSKA-CERANOWICZ, B. & RITZKOWSKI, S. (2004): The saved fragment of the Königsberg Amber Collection in Göttingen. – Prace Muzeum Ziemi, **47**: 109 – 123.

KRAUSE, K.-H. (2003): Bernstein an den Küsten und im Binnenland von Dänemark. – Aufschluss, 54: 2 – 10.

KRUMBIEGEL,G. (2003): Ein ungehobener Schatz. Die Bernsteinsammlung Walter Simon. – Fossilien, 3/03: 166 – 169.

KRUMBIEGEL, G. (2003): Bernsteinklumpen. Kleinode in Übergröße. – Fossilien, 6/03: 360 – 363.

KRUMBIEGEL, G. (2004): 10 Jahre Bernsteinmuseum Bad Füssing, 1992 – 2002 (Bibliographie). - Prace Muzeum Ziemi, **47**: 125 – 127.
LAZOWSKI, L. (2004): Stan poszukiwán bursztynu w osadach holocénskich Pobrzeza Baltyckiego (= Amber prospecting in Holocene deposits of the Baltic Coast). - Prace Muzeum Ziemi, **47**: 43 – 56.
MARTINEZ-DELCLOS, X., BRIGGS, D. E. G. & PENALVER, E. (2004): Taphonomy of insects in carbonates and amber. – Palaeogeogr., Palaeoclimatol, Palaeoecol., **203** (1-2): 19 – 64.
MAZUROWSKI, R. F. (2003): The Role of the Vistula Lowlands (Zulawy Wislane) in the Development of Prehistoric Amber Industry and Barter Contacts With the Interior. – Amberif2003: 20 –27.
NEUWALD,H.K. (2003): Ajkait. Ein fossiles Harz aus Ungarn. – Fossilien, 4/03: 241 – 244.
POPIOLEK, J. (2004): Informacje o wystepowaniu bursztynu na ziemiach polskich w dawnej literaturze (XVI-XIX wiek). (= Information on the amber occurrence in Poland in old literature (16th – 19th centuries). - Prace Muzeum Ziemi, **47**: 73 – 78.
POPIOLEK, J. (2004): Ignacy Mielzynski I jego badania nad wystepowaniem bursztynu. (= Ignacy Mielzynski and his research into the occurrence of amber). - Prace Muzeum Ziemi, **47**: 79 – 85.
SALLOUM, H. (2003): Amber; the Dominican Republic's gem which inspired Jurassic Park. – Canadian Rockhound (Winnipeg), **7** (1): 5 pp.
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IV. Inclusions

Following a majority decision of the technical session of our WG held during the conference "Amber in Gdansk – Geology, Archaeology, Craftsmanship" (Gdansk, August 23rd – 25th, 2003) publications on inclusions will not be included in these lists of references in future any more.

Norbert Vavra (21/12/04)

(12) WORKING GROUP ON ASTROMINERALOGY (WGA)

Chairman : F. Rietmeijer

Officers Working Group Astromineralogy [**updated 01/12/04**]

COUNTRY	
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CHINA	Proposed Chen Ming (contacted January 2003; no response
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SPAIN	Prof. Dr. Fernando Rull Dpto. de Cristalografía y Mineralogía, Facultad de Ciencias C/ Real de Burgos s/n 47011 Valladolid (Spain) e-mail: rull@fmc.uva.es
USA	Frans Rietmeijer (Chair) Department of Earth and Planetary Sciences, MSC03-2040 University of New Mexico Albuquerque, NM 87131-0001, USA fransjmr@unm.edu

Proposal Special Session Goldschmidt 2005

As Chair of the IMA Working Group “Astromineralogy” I would like to propose a special session for the purpose of bringing together scientist from diverse disciplines studying minerals in extraterrestrial environments through laboratory analyses of collected materials, IR-UV spectroscope analyses and laboratory analyses of analog materials. The “Astromineralogy” scope is wider than the study of meteorites or impact craters on Earth alone; its interface with Astrobiology is a diffuse one.

Astromineralogy covers fundamental research and space mission-related studies, which means there is a field ranging from circumstellar dust and solar system formation, protoplanet (asteroids; comet nuclei) formation and evolution, including a role of minerals pertinent to “Origins of Life” questions.

Getting the Working Group “Astromineralogy” off the ground is harder than I would have thought it would be. A special session scheduled for the 32th IGC meeting resulted in only two requests for an oral presentation (one being my own paper) but on the bright side received six requests for a poster presentation. Apparently people had at least noticed the opportunity on the Internet, I failed in an aggressive advertisement campaign despite the fact it was announced in the “Lattice” and in a newsletter from the Lunar and Planetary Institute.

The Goldschmitt conference being less focused on “Geology” might be a better opportunity.

Thank you,

Frans J.M. Rietmeijer

(13) WORKING GROUP ON ENVIRONMENTAL MINERALOGY (WGEM)

Chairman : David Vaughan

OUTLINE PROPOSAL FOR AN IMA WORKING GROUP ON *ENVIRONMENTAL MINERALOGY*

Background
This proposal arises out of a request from IMA President Ian Parsons to Professor David Vaughan that he chair a new Working group on Environmental Mineralogy for the IMA. As Council Members will appreciate, although much of what is now becoming identified with the field of environmental mineralogy has been taken by mineralogists for many years, its emergence as a distinct sub-discipline has been relatively recent. However, it is an area that is growing rapidly in its perceived importance, and most particularly, it is an interdisciplinary area that has the potential attract interest and support from a wider community than is normal for our science. Many more articles are now being published in the journals of our member societies that fall within this field; some journals (eg Mineralogical magazine) are planning regular issues on this theme. Various societies have held short courses and published review volumes in the area, notably MSA and EMU (the "Environmental Mineralogy" volume published by EMU and co-edited by myself has been well received). It is very clear that the IMA should be involved in promoting environmental mineralogy, and the obvious way to do so is to set up a working group.

Proposal
If Council agrees, I would set up an Environmental Mineralogy Working Group and, in consultation with the president (and possibly with someone as Vice-Chairman). I have a number of people in mind (but having not yet approached any of them, feel it is inappropriate to give names as yet). Officers would be in addition to national representatives. If the IMA constitution permits (and I believe it does), it would be best for us to select the initial officers and representatives of the more active countries (seeking advice where appropriate); if smaller countries wished to propose representatives, they would be welcome to do so.
Initially at least, the remit of this new group should be quite broad and include all aspects of the those natural and anthropogenic systems where the mineral world of the geosphere comes into contact with the hydrosphere, atmosphere, and biosphere. It should also include the area sometimes referred to as "mineralogy and health" where mineralogists interact with medical researchers and practitioners. An announcement of the group would include fuller definition of its remit.
Activities of the working group would encompass those associated with other such IMA bodies (convening sessions at the general Meeting and at other international conferences, organising short courses and more specialist meetings, promoting and publicising the field etc). It should also be more active than many other groups in promoting/organising interdisciplinary meetings and workshops (with biologists, atmospheric scientists, medical scientists etc).

Concluding Statement
Mineralogy, by its very nature, should be at the hearth of the so-called environmental sciences, but is all too often left on the sidelines, with other disciplines setting the agenda. W e need to reclaim our position as leaders of those who have the training and skills to provide a more rigorous, quantitative understanding of "the environment". Setting up an Environmental Mineralogy group within IMA is one small, but significant, step in this direction.

D.J. Vaughan
2/4/03

Background

(14) COMMITTEE ON INTERNET AND COMPUTER APPLICATION (CICA)

Members of the committee: Bertrand DEVOUARD, Thomas KERESTEDJIAN, Tony LAW, Roland MERKLE, Kevin MURPHY.

The Committee for Internet and Computer Applications (CICA) of the IMA devised a new webwite for the IMA in 2003. This version was put online in Clermont-Ferrand in May 2003, and updated in September and October 2003.

A new version of the IMA website was build up by Maryse Ohnenstetter and Christine Lecluse and put online in February 2004. The CICA gave some technical advice for the development and maintenance of this new version.

It has been agreed with Maryse Ohnenstetter that the website will be moved to a server in Nancy in a near future, in order to facilitate more frequent updates by the General Secretary. The CICA will keep on providing technical help and suggestions for developments of the website, when needed.

Concerning the project of developing an interchange format for mineralogical databases, a communication entitled "A universal interchange file format for mineralogical data: What could be in there?" was presented at the MM5 meeting in Paris on this topic. The abstract reported below presents the project.

Thomas Kerestedjian created and maintains a mailing list <CICA_list@yahoogroups.com> that is used for discussions among the CICA members.

A universal interchange file format for mineralogical data: What could be in there?

DEVOUARD, B. (Blaise Pascal University – CNRS, Clermont-Ferrand, France)

Numerous databases containing information about minerals are currently being developed or maintained around the world. They contain data relative either to specimens (descriptions and/or pictures, typically for collection management) or to mineral species (*e.g.*, determinative properties, crystallographic or spectroscopic data…). In some cases, the information may refer both to a specimen and to the species, for instance in the case of a spectrum acquired on a given specimen but considered characteristic of the mineral species.

Most of those databases, however, do not allow the export (or import) of data from (or to) other databases, by lack of a standard interchange format. In 2002, the Committee for Internet and Computer Applications (CICA) of the International Mineralogical Association (IMA) started a reflection about the need of a universal interchange file format for mineralogical data. We believe that such an ambitious project attempting to develop a worldwide standard could only be conducted within the scope of the IMA. The current status of the project, and aim of this communication, is to probe the community about the necessity of defining such a file format and to make an inventory of existing similar projects.

The basic requirements of a universal interchange file format for mineralogical data should be the following :

(1) Files should be able to contain any type of data relevant to minerals. This includes data such as mineral name, location, chemical formula or analysis, values or ranges for hardness, density and such, but also more complex data

such as pictures, crystallographic data, various kinds of spectroscopic data (optical, powder XRD, IR, Raman, XAS…), or even references to external databases.
(2) The file format should be public and non proprietary, so that any program or database willing to export or import some type of mineralogical data could use this interchange format. Developers would have access to the file format specifications, and would be free to develop specific import/export routines for providing full or partial support of the interchange file format in their applications.
(3) The file format should be evolutionary, in order to face future needs of the community. Although only a limited number of data types will probably be available at the beginning, any type of data could eventually be added, either as part of the standard or for proprietary use.

If there is effectively a need in the mineralogical community for developing such a universal interchange file format, the second step will be to choose a technology for implementing the file format. XML (EXtensible Markup Language), a data description language supported by the World Wide Web Consortium (W3C), could be a possibility among others.

END

Maryse Ohnenstetter

IMA Secretary

7 February 2005