

IMA 2005 Annual Report to IUGS

Appendix 3

ANNUAL ACTIVITY REPORTS

of IMA COMMISSIONS and WORKING GROUPS

for the YEAR 2005

This third appendix is available from the IMA Website, under the item "IMA Business" within the IUGS report).

Address of IMA Website : <http://www.ima-mineralogy.org>.

Each annual report of the 13 IMA Commissions and Working Groups (COM/WG) and that of the CICA are also available on the IMA Website under the same item "IMA Business" but relative to the reports of Com/WG. They are also directly available from the home page of the respective Commissions and Working groups within the IMA Website.

Likewise, lists of members of IMA Commissions and Working Groups prepared by the Officers of IMA COM/WG for the 2005 annual report are given in this appendix 3. These updated lists are also available within the home page of the respective IMA Commissions and Working Groups on the IMA Website as well as on the Website of some Commissions and Working Groups.

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1.1. COMMISSION ON APPLIED MINERALOGY (CAM) -

1.1. Current Officers

Richard D. HAGNI, Chairman

Eric PIRARD, Vice-Chairman

Henrique KAHN, Secretary

Corresponding member in the Council: Marcello Mellini

*Dick Hagni, who has served as CAM chairman since 1990, has asked to step down from the chairmanship of CAM, and the three current officers of CAM have unanimously recommended to the IMA Council that the incoming chairman of CAM be Dogan Paktunc, who is expected to take office prior to the upcoming IMA quadrennial meeting in Kobe, Japan

Reporter: Richard D. Hagni

1.2. Objectives

The principal objectives of CAM have been the sponsorship of papers relating to applied mineralogy at two quadrennial international meetings: 1) IMA, and 2) ICAM. CAM also has occasionally sponsored sessions at other international meetings (e.g., IGC in Rio de Janeiro, Brazil). CAM has a close relationship with the International Council on Applied Mineralogy (ICAM), which sponsors quadrennial Congress meetings (also called ICAM) that are timed to occur exactly one-half way between IMA quadrennial meeting. CAM co-sponsors much of the quadrennial stand-alone ICAM meetings, and ICAM co-sponsors sessions at the quadrennial meetings of IMA.

1.3. Business Meeting held during 2004

CAM held a full business meeting on September 22, 2004 at the ICAM meeting in Àguas de Lindóia, Brazil. The principal activity at that business meeting was a long discussion regarding what the relationship should be between CAM and ICAM. At the end of that discussion, a vote was called for and it was nearly unanimous (only 3 dissenting votes) in the agreement that ICAM and CAM should continue as separate entities, but co-sponsor sessions at both IMA and ICAM quadrennial meeting. CAM has no financial support.

1.4. Interface with other International organizations

The strong interaction between CAM and ICAM has been noted above in section 2. CAM will serve to co-sponsor the quadrennial meeting of ICAM in Brisbane, Australia in 2008.

1.5. Chief accomplishments in 2004

Technical Meeting:

The principal accomplishment during 2004 was to help co-sponsor the quadrennial ICAM meeting organized by Henrique Kahn in Àguas de Lindóia, Brazil, and held September 22-24, 2004, together with pre-meeting and post-meeting field trips and short courses. This meeting was a great success and CAM participated fully in the meeting. There was a large participation, large number of papers, short courses, field trips, and a two-volume publication. ICAM 2004 attracted 326 delegates from South America (182), Europe (83), North and Central America (20), Africa (20), Asia (16) and Oceania (5).

A two-volume publication of 1062 pages resulted from the ICAM meeting in Àguas de Lindóia, Brazil. The publication entitled "Applied Mineralogy: Developments in Science and Technology" contains 250 papers (4-page extended abstracts) together with 7 plenary lecture papers (v.1, ISBN 85-98656-01-01 & v.2, ISBN 85-98656-02-2). In addition, ICAM 2004 field trips were published in a CD format (ISBN 85-98656-03-8).

Short Courses:

IMA-CAM provided in-kind sponsorship to the Process Mineralogy short course held on January 19, 2004 in Ottawa, Canada. The short sponsored by the Canadian Mineral Processors, a division of the Canadian Institute of

Mining, Metallurgy and Petroleum (CIM) was organized by Dogan Paktunc covering an overview of the tools, techniques, methodologies and state-of-the-art developments in the use and applications of mineralogy in metallurgical processing.

IMA-CAM co-sponsored two short courses presented during ICAM 2004 meeting in Brazil:

- β Image Analysis on Applied Mineralogy Workshop (SCP2)
- β Quantitative X-Ray Diffraction by Rietveld Method – QXRD (SCA3)

Web site:

A web site has been constructed for ICAM and CAM by Henrique Kahn at the University of Sao Paulo. The web site is: <http://www.appliedmin.org/>. The web site includes sections on: 1) ICAM, 2) IMA-CAM, 3) Conference announcements, 4) Literature (journals, books, and proceedings), 5) Laboratories and research groups around the world, and 6) links to related scientific organizations. This web site will undergo revision by the end of 2005.

Database of individuals interested in applied mineralogy:

A large database listing individuals interested in applied mineralogy has been constructed by Henrique Kahn at the University of Sao Paulo.

1.6. Chief Problem Encountered in 2004:

The timing of the IGC meeting conflicted with that of the ICAM meeting, and that prevented CAM members, who were intimately involved in the ICAM meeting, from attending the IGC meeting.

1.7. Workplan for 2006 (Provisional)

With the replacement of Dick Hagni by Dogan Paktunc, new goals and objectives will be discussed at the CAM business meeting at the upcoming IMA quadrennial meeting in Kobe, Japan. Initial initiatives by Dogan Paktunc include:

- Suggestions for sessions on the quantitative aspects of applied mineralogy will be offered for the Frontiers in Mineral Sciences meeting in Cambridge, England in 2007.
- Organize a short course on Process Mineralogy and Geometallurgy to be held on June 5, 2006 at the Laurentian University in Sudbury, Canada in conjunction with the International Conference, Mineral Process Modeling, Simulation and Control. The following topics will be covered: Geometallurgy; Mineralogical characterization including quantitative mineralogy; Mineral processing applications; Hydrometallurgy applications; Process simulations.
- Investigate the feasibility of designing modular CAM short courses featuring various aspects of applied mineralogy. Each module will cover a specific topic endorsed by CAM and will be given by one speaker.

Paper for Elements:

A short contribution (a column, rather than a full paper) in print by Dick Hagni in Elements dealing principally with the relationship between IMA-CAM and ICAM, and more briefly discussing with the scope of applied mineralogy.

1.8. Sponsorship of sessions at IMA-Kobe:

Two sessions will be co-sponsored by CAM and ICAM:

- 1) Process mineralogy (session 29)
- 2) Crystals, ceramics, and glasses with advanced physico-chemical properties (session 28)

Four additional sessions on environmental and applied mineralogy, co-sponsored by ICAM:

- 3) Clays and zeolites: natural and synthetic materials (session 27)
- 4) Environmental and medical mineralogy (session 26)
- 5) Mineral-water interactions: from microscopic to macroscopic aspects (session 25)
- 6) Bio-Geo interface in minerals (session 24).

1.9. National Representatives:

Austria - Dr. V. Kahlenberg
Belgium - Prof. Jan Elsen
Bulgaria - Dr. Ivan Dontchev
Canada - Dr. William Petruk

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

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

COMMISSION ON CLASSIFICATION OF MINERALS (CCM)

2.1. Current Officers

Yu Pushcharovsky, Chairman
Ernest NICKEL, Vice-Chairman
Andy Mc DONALD , Secretary

Corresponding member in the Council: Werner Schreyer

Reporter: D. Yu. Pushcharovsky)

2.2. Overall objectives of the Commission on Classification of Minerals:

To review existing systems of mineral classification, to provide advice on the classification of minerals to the mineralogical community, and to participate in national and international symposia relevant to the general subject of mineral classification and to help keeping contacts with member countries by distributing and collecting information related with systematic mineralogy and classification of minerals.

2.3. Organisation

Officers- see above
Number of business meetings : Two
The main activities

Prepared a discussion paper on the standardization of mineral groups (D.Yu. Pushcharovsky, M. Pasero, E. H. Nickel & G. Ferraris) which was discussed at the business meeting of the CCM in Paris.
Engaged in discussions with the Commission on New Minerals and Mineral Names regarding a possible amalgamation of the two Commissions. A vote of the CCM membership supported the amalgamation by a majority of 8:1.

Financial support : None

2.4. Interface with IMA projects and other International projects

CCM initiated two MS at IMA General Assembly in Kobe: i) Crystal structure, topology and crystal chemistry (CCM); ii) New minerals and mineral classification (CNMMN, CCM);

2.5. Chief accomplishments in 2004

Administration - Business Meeting

Two business meetings were held in Paris on September 7, 2004, one of which was held jointly with the Commission on New Minerals & Mineral Names

Outreach: Bulletins, News

Website

Technical Meetings

Participated in the organization of the symposium "Crystal Structures of Minerals; Topology and Classification" (convenors: D. Yu. Pushcharovsky & E. Tillmans) at the International Geological Congress in Florence, 2004.

Publications

"Minerals: Definition and Classification" (E. H. Nickel) in Encyclopedia of Geology; Elsevier, 2004.

T.Szakáll, Sándor (2005): Ásványrendszertan. [Mineral systematics]

Miskolci Egyetemi Kiado [Miskolc University Press], Miskolc, Hungary. p. 336

2.6. Chief problem encountered in 2005

2.7. Workplan for 2006

Administration

Potential targets: Main attention will be concentrated on the preparation to IMA assembly in Kobe

Recruitment of new officers: I.Pekov (MSU, Russia) is considered

as a candidate for CCM chairman. This idea was
discussed with CCM and CNMMN members

Suggestion for new aims and objectives

Database

Business Meetings

Communication

Website

Dissemination of information

Consolidation of partnerships: A member of CCM – M. Novak is a chairman of the Subcommittee for classification of tourmaline group minerals. Currently, the discussed Report has 29 pages without references. The main problem in this respect is to find the way how to combine complicated structure and chemistry of tourmaline (with B,H,Li and Fe²⁺/Fe³⁺) with results from electron microprobe (without H, B, Li, Fe²⁺/Fe³⁺), which represent perhaps 99% of tourmaline analyses. M. Novak is also a member of the Subcommittee for classification of pyrochlore group minerals (chairman T.S. Ercit).

Technical Meetings

Publication: News-Bulletin; Papers for Elements; Books - Special publication

If the CCM is amalgamated with the CNMMN in 2006, as proposed, matters concerned with mineral classification will be incorporated into the activities of the CNMMN. Therefore it is not possible to draw up a detailed workplan now.

2.8. Preparation of the IMA Business Meetings in Kobe

Anticipated work plan for the commission or Working group for the next four years :

National representative - Officers

Participation in research projects

Sponsoring of conferences, short course, workshop

Two symposia to be sponsored at the 2006 IMA meeting in Kobe

Development of cooperation with IMA Com./WG

Proposed amalgamation with the CNMMN (see above).

Development of cooperative ventures with affiliated IUGS bodies

Budget

Communication towards scientific and the non-specialized public:

Austrian Mineralogical society awarded D. Pushcharovsky F. Becke medal.

2.9. List of Officers and National Representatives

Chairman: D. Yu. Pushcharovsky

Vice-chairman: E. H. Nickel

Secretary A. M. McDonald

National Representatives:

Argentina	Dr. M. A. Galliski
Australia	Dr. J. Brugger
Austria	Dr. H. Effenberger
Belgium	Dr. A.-M. Fransolet
Brazil	Prof. M. N. C. Ulbrich
Canada	Dr. A. M. McDonald
China	Dr. Y. Zhuming
Croatia	Dr. V. Bermanec
Czech Republic	Prof. M. Novak
Denmark	Dr. E. Makovicky
Egypt	Prof. M. E. Murtada
Finland	Prof. M. Lehtinen
Germany	Dr. C. Geiger
Greece	Dr. T. Soldatos
Hungary	Dr. T. G. Weiszbarg
Italy	Dr. G. Lucchetti

Japan	Dr. R. Miyawaki
New Zealand	Dr. P. Black
Norway	Dr. G. Raade
Romania	Dr. G. Udubasa
Russia	Dr. D. Yu. Bushcharovsky
Sweden	Dr. D. Holtstam
Switzerland	Prof. S. Graeser
Ukraine	Dr. A. A. Val'ter
USA	Dr. G.E. Harlow

Chairman of CCM
D.Yu.Pushcharovsky

Co-chairman of CCM
E.Nickel

COMMISSION ON GEM MATERIALS (CGM)

3.1. Current Officers

Margherita SUPERCHI, Chairman
Lin SUTHERLAND, Vice-Chairman
Takeshi Miyata, Secretary

Corresponding member in the Council: Maryse Ohnenstetter

Reporter : Margherita Superchi

3.2. Overall objectives of the Commission

Main goal of the Commission is to produce a "Glossary of Gem Materials" that should contain correct names to be used in different Countries, taking into account problems related to new natural materials, new treatments and new synthetics, considering nomenclatures already under discussion and problems related to different Commercial Groups, existing rules/norms and Country Laws. For all those reasons this is not an easy task but, being involved in all those systems, we can offer practical suggestions.

3.3. Business Meeting

No Business meeting held.

3.4. Interface with other organizations

3.5. Main activities in 2005

International Short Course on Fluid Inclusions in Gemstones held in Siena (Italy) on 4th and 5th July 2005 in connection with the XVIII Symposium of ECROFI (European Current Research on Fluid Inclusions). Teaching and organization of the course (with practical sessions on special samples) was held by Margherita Superchi (Chairman of CGM), Elena Gambini (Italian representative in CGM) and Jacques Touret (from Belgium).

3.6. Chief problems

There are Official Members that do not reply to our messages and that never contact Officers. Mineralogical Societies should check the activity of their representatives and in case renew the nomination.

Some Countries which are members of IMA do not indicate any representative.

There are Countries which are not members of IMA but that have specialists that could give good contributions to the activities of the Commission: in those cases the specialists receive an invitation to take part to meetings and activities.

3.7. Activities planned for 2006

3rd Asian-Oceania Geosciences Meeting, in Singapore, July 2006, for a Session on Asian Lithosphere: Gem materials-from diamonds to pearls, convened by CGM(IMA) member Dr Wolfgang Hofmeister, University of Mainz, Germany.

Discussions, using e-mails, about the draft for the "Glossary of Gem Materials" and connected items.

3.8. Sponsoring at Kobe

Session number 32 titled "Natural and Artificial Gem Materials" during IMA 2006 in Kobe.

Two meetings of the Commission during IMA 2006 in Kobe

Presentation of the Final Draft of the Glossary of Gem Materials to the Mineralogical Community

3.9. National Representatives

AUSTRALIA

Dr Bill BIRCH

AUSTRIA

Dr Vera M.F. HAMMER

BRAZIL	Prof dr Pedro JUCHEM
BULGARIA	Dr Ruslan I. KOSTOV
CANADA	Dr Lee A. GROAT
CROATIA	Dr Goran KNIEWALD
CZECH REPUBLIC	Dr Petra BURDOVA
DENMARK	Dr Peter C. TOFT
EGYPT	Prof dr Abdel Aziz Abdel Kader HUSSEIN
FINLAND	Dr Leeni VILPAS
FRANCE	Dr Emmanuel FRITSCH
GERMANY	Prof dr Wolfgang HOFMEISTER
ITALY	Dr Elena GAMBINI
MEXICO	Prof Mikhael OSTROUMOV
NETHERLANDS	Dr Charles E.S. ARPS FGA
NEW ZEALAND	Dr Peter J. OLIVER
POLAND	Prof. Dr Wieslaw HEFLIK
PORTUGAL	Dr Rui GALOPIM DE CARVALHO
ROMANIA	Prof dr Corina IONESCU
RUSSIA	Dr Tatiana V. POSSOUKOVA
SOUTH AFRICA	Dr R.D. DIXON
SPAIN	Prof dr Carlos de la FUENTE
SWEDEN	Mr Erik JONSSON
SWITZERLAND	Prof dr Henry A. HAENNI FGA
UNITED KINGDOM	Dr Roger R. HARDING
USA	Ph. D. James E. SHIGLEY

COMMISSION ON MINERAL GROWTH AND INTERFACE PROCESSES (CMGIP)

4.1. Current Officers

Cornelis WOENSDREGT , Chairman
Katsuo TSUKAMOTO , Vice-Chairman
John ROKOVAN, Secretary

Corresponding member in the Council: Alain Baronnet

https://www.geo.uu.nl/webmail/src/read_body.php?passed_id=1296&ent_id=1&mailbox=INBOX&sort=6&startMessage=1&show_more=0&passed_ent_id=0

4.2. Objectives - Representation

Since the 2002 Edinburgh conference the number of our commission members has increased significantly. At this moment 20 countries have a representative in our commission. Besides the fact that now so many countries are represented, it is even more important to state that the composition of the commission now represents almost the whole spectrum of mineral growth. We regret that still a few countries with a strong mineral growth tradition have not found or convinced suitable members for our commission.

4.3. Business Meeting

The 2004 conference in Pisa was not an ideal convening site for our commission. Contacts between the commission members can nowadays better be realised through internet communications. Occasional meetings between commission members took place during conferences, meetings and individual visits to institutes or laboratories.

4.5. Chief Accomplishments

Meeting The International Symposium on Interface Mineralogy was successfully held in Sendai, Japan on 28-30 September, 2005. From 8 countries, 38 participants attended the symposium, in which they discussed not only the scientific issues, but also possible sessions on crystal growth during the IMA Kobe conference in 2006. The aim of this symposium was to bring together experts in crystal growth and geoscientists interested in the wide range of phenomena associated with mineral growth and dissolution processes in nature. Although there has been interaction between the "crystal growth community" and geoscientists in the past, there is still a strong demand to strengthen and employ the most modern tools and advanced ideas, if we are to advance our understanding of these processes. The meeting included presentations and discussions on the mechanisms of growth and dissolution mechanism at the crystal interface, mineral replacement, oscillatory growth, self- assemblage of nano-particles, perfection of crystals, and crystallization under extreme conditions such as in space.

Webpage CMGIP Changing of the information on our special CMGIP webpage was not easy. We regret that at this moment not all our information is up-to-date.

4.6. Chief problems in 2005 - Meetings

Notwithstanding the efforts of our commission members we could not convene a special session on "Mineral growth and related processes" during the **Annual V.M. Goldschmidt Conference in Moscow, Idaho, USA**. Unfortunately, our proposal was not accepted due to the large number of closely related sessions. However, there were many symposia that dealt with crystal growth and mineral surface reactions, but not the specific one that we proposed.

Commission members have written in several occasions officially and as individual scientists to the Organizing Committee of the **2006 IMA Kobe conference**. It is not inconceivable to suppose that all these efforts contributed to the change of the original idea of combining crystal growth with crystallography. In the definite scientific program three sessions sponsored by our commission are planned (see below 3.8)

4.7. Plans

During the 2006 Kobe meeting hopefully a representative number of commission members will be present in order to have a fruitful discussion about the organisation of a summer school in the field of mineral growth and related processes. The original plan to organise such a school in East Europe has not been possible.

Further, it is necessary to discuss how we can be more successful in organising special meetings during the Goldschmidt conferences.

Moreover, actions must be taken in order to have a better presentation of our commission on the IMA web pages.

4.8. Kobe

Three sessions sponsored by our commission are planned:

11. Application of novel techniques for in-situ observation of crystal growth and nucleation. Conveners: Andreas Lutge (Rice Univ.) and Katsuo Tsukamoto (Tohoku Univ.).

12. Texture formation and crystal growth in geosciences. Conveners: Michihiko Nakamura (Tohoku Univ.), Tadao Nishiyama (Kumamoto Univ.) and Andrew Putnis (Univ. of Münster).

13. Nucleation and Aggregation of macro- to nano-materials. Conveners: Lukas Baumgartner (Univ. of Lausanne), Masamichi Ishikawa (Tokyo Inst. of Technology)

4.9. National representatives

AUSTRIA	Prof. Dr. Martin Dietzel,
BULGARIA	Dr. Ivan Bonev,
CANADA	Dr. Jeanne Paquette,
DENMARK	Prof. Susan Stipp
EGYPT	Professor Ali A. Omar
FRANCE	Alain Baronnet
GERMANY	Professor Andrew Putnis,
HUNGARY	Prof. Mihály Pósfai DSc
INDIA	Professor K. Byrappa
JAPAN	Katsuo Tsukamoto,
THE NETHERLANDS	Cornelis F. Woensdregt
NEW ZEALAND	Professor Dr. Rodney H Grapes,
POLAND	Prof. Eugeniusz Galuskin
RUSSIAN FEDERATION	Prof. Arkady E. Glikin,
SOUTH AFRICA	Professor R. K. W. Merkle,
SPAIN	Prof. Dr. Manuel Prieto,
SWEDEN	Henrik Skogby,
SWITZERLAND	Prof. Dr. Bernard Grobety
UNITED KINGDOM	Dr R.A. Wogelius
USA	John Rakovan,

COMMISSION ON MUSEUMS (CM)

5.1. Current Officers

Lydie TOURET, Chairman

Kay U. SCHUERMANN, Secretary

Corresponding member in the Council: Ian Campbell

Reporter - Dr. Kay U. Schuermann

2. The overarching goal of the CM is to link the mineralogical sections of scientific museums all over the world.
3. Ad Hoc Meeting on October 28th, 2005 at Munich, Germany, during the Munich Fair. (Minutes will be distributed as soon as possible.)
4. The main activity of the CM in 2005 will be to establish the session “Mineral Heritage” with 3 subsessions for the 19th General IMA Meeting at Kobe (Japan) 2006.
5. There is no financial support from IMA this year.
6. The CM Website is maintained by A. Kampf (see www.smmp.net/ima-cm/).
7. SMMP meetings during the Tucson Show (February) and Denver Show (September).
8. Dermot Henry (Museum of Victoria, Melbourne, Australia), the national representative of Australia, is the designed Secretary of the CM. He is the only officer of the CM to be elected at the business meetings during the IMA Meeting at Kobe 2006.
9. The CTMS catalogue of mineral type specimens has been updated.
10. See the CM Website for the list of national representatives.
11. The next business meetings are scheduled during the IMA Meeting at Kobe.

Marburg (Germany), 21th November 2005

Kay U. Schuermann

(Secretary of the IMA-CM)

COMMISSION ON NEW MINERALS AND MINERAL NAMES (CNMMN)

6.1. Current Officers

Ernst BURKE, Chairman, (Amsterdam, The Netherlands)

Giovanni FERRARIS, Vice-Chairman (Torino, Italy)

William D. BIRCH, Secretary (Melbourne, Australia)

Reporter: William Birch

6.2. Overall objectives

The Commission on New Minerals and Mineral Names was established in 1959 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.

6.3. Organisation

Business meetings

The CNMMN holds its business meetings every two years, when its members participate in IMA General Meetings and Mineralogy and Museums Conferences, each of which are held every four years. The CNMMN last met in Paris in 2004 and will meet in Kobe in 2006. No meetings were held in 2005.

Main activities

The CNMMN partitions its workload amongst the three officers: the chairman prepares the new-mineral proposals, the vice-chairman handles the proposed changes to existing nomenclature (discreditations and redefinitions), and the secretary coordinates the subcommittees created to examine the nomenclature of mineral groups. There are 30 voting members of the CNMMN, representing 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

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

6.4. Involvement with IMA and international projects

Nothing to report

6.5. Chief accomplishments in 2005

Activities

The CNMMN will handle 60–65 new-mineral proposals in 2005 (59 proposals in 2004, 70 in 2003, 67 in 2002) in batches of, on average, five proposals per month. Members will also decide on five proposals involving mineral nomenclature revisions, the most substantial being a new nomenclature system for the arrojadite group.

Seven CNMMN subcommittees were active during 2005:

1. Sulfosalts (Chairman: Yves Moelo, France)
2. Pyrochlores (Chairman: Scott Ercit, Canada)
3. Tourmalines (Chairman: Milan Novák, Czech Republic)
4. Alunites (Chairman: Peter Bayliss, Australia)
5. Epidotes (Chairman: Thomas Armbruster, Switzerland)
6. Amphiboles (Chairman, Bernard Leake, UK)
7. Unnamed minerals (Chairman: Dorian Smith, Canada)

The final reports of two of these subcommittees (epidote nomenclature; the status of unnamed minerals as published

in the historical literature) have been submitted for members' comments. A number of the other subcommittees are close to finalising their discussions.

A list of about 1600 minerals published before the CNMMN was established in 1959 has been compiled. This list contains grandfathered names (names of minerals generally considered to be valid minerals), questionable names (names of minerals generally considered not to be valid minerals) and mineral names published after 1959 without approval of the CNMMN. Members have been asked to consider this list, with a view to reaching agreement on the names. The assistance of Jeffrey de Fourestier has been sought in this project. It is a formidable task, as there are numerous controversies on the orthography and the status of hundreds of 'traditional' minerals and their names.

Administration

A major development during 2005 was the in-principle decision to proceed, subject to a vote on a proposal by the IMA Council, with the amalgamation of the CNMMN and the Commission on Classification of Minerals (CCM). Members of both commissions have voted to approve this amalgamation, which will enable the new commission to extend its work into classification and to deal more effectively with such issues as the nomenclature of groups. The General Meeting of the IMA in Kobe will vote on this matter.

Outreach

The Chairman regularly participates 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. (See also Publications)

Technical meetings

No technical meetings were held in 2005.

Publication

The list of new minerals approved in 2004 was published on the CNMMN's website.

Two papers dealing with decisions of the CNMMN were published in the scientific literature during the year:

1. Burke, E.A.J. and Ferraris, G. (2005): New minerals and nomenclature modifications approved in 2004 by the Commission on New Minerals and Mineral Names, International Mineralogical Association. *Canadian Mineralogist*, **43**, 829-835.
2. Burke, E.A.J. and Leake, B.E. (2005): "Named amphiboles": a new category of amphiboles recognized by the International Mineralogical Association (IMA), and the proper order of prefixes to be used in amphibole names. *American Mineralogist*, **90**, 516-517.

The CNMMN considers that its work is important not just for professional mineralogists and petrologists but also for the thousands of amateur collecting enthusiasts. Consequently, when issues are raised in popular collecting publications that relate to the commission's actions and decisions, every endeavour is made to respond. The Secretary, William Birch, and Chairman Emeritus, Joseph Mandarino, submitted articles explaining how the CNMMN reached its decisions, in response to a critique published in the mineral collectors' periodical *Rocks and Minerals* in 2004. The two responses were published in 2005.

The Chairman, Ernst Burke, submitted an article entitled *New Minerals: Help or Hindrance* to the new international magazine *Elements* (volume 1, no. 3, June 2005). The article explained the work done by the commission and its significance for mineralogy. This article was reprinted in the *Bulletin of the Mineralogical Society of Southern California*, volume 75, no. 7 (June 2005).

6.6. Chief problems encountered in 2005

Generally the work of the Commission proceeded smoothly in 2005. However, the Chairman drew attention to the consistent failure of some members to vote on new mineral proposals and the absence of detailed arguments to support many YES votes. Attempts are being made to discover why this is occurring, although in part it may reflect the heavy workload of the members.

6.7. Workplan for 2006

Activities

It is anticipated that the number of new mineral proposals, nomenclature revisions and discreditations will remain at much the same levels in 2006 as in 2005. The nomenclature scheme proposed for the epidote group and the list of

undescribed minerals will be subject to voting early in the year. It is expected that the subcommittees on the tourmaline, sulfosalt, pyrochlore and alunite groups will submit their first reports during 2006.

Administration

The Chairman has foreshadowed changes in Commission officers over the next few years. The current Vice Chairman and Secretary have both indicated they will retire by 2008. A second Vice Chairman's position will arise if the amalgamation between CNMMN and CCM takes place; the appointee will take over the role of coordinating the various subcommittee reports, a task now undertaken by the Secretary.

Should the amalgamation proceed, the aims and objectives of the new Commission will need to be appraised.

Two CNMMN business meetings are planned for the 19th General Meeting of the IMA to be held in Kobe in 2006. These are yet to be scheduled and agendas have not yet been prepared. The Commission will also sponsor the scientific session *New Minerals and Mineral Classification* at this meeting.

Communication

It is anticipated that the list of agreed mineral names published before 1959 will be finalised and placed on the Commission's website in 2006.

6.8. Preparation for IMA Business Meetings in Kobe

Officers

A new Vice-Chairman will have to be appointed in Kobe 2006 and a new Secretary at Mineralogy and Museums Conference (M&M6) in 2008. The amalgamation between CNMMN and CCM will involve the appointment of a second Vice-Chairman. The current Chairman will serve a second term until 2010.

National representatives

The amalgamation between CNMMN and CCM will probably involve an enlargement of participating countries (some countries having members in the current CCM are not represented in the CNMMN) and the member countries will have to decide on their representative in the new CNMMN.

Sponsoring of conferences

The CNMMN will sponsor scientific sessions at M&M6 in 2008 and the IMA meeting of 2010.

Activities

Besides the normal duties of the CNMMN (new-mineral proposals, changes in existing nomenclature, classification of mineral groups), two new major projects need attention in the coming years: 1) attempts to rationalize the existing nomenclature, with the main problem being the amphiboles; 2) discussions within the CNMMN on the voting system. Both projects will be started during the CNMMN business meetings in Kobe 2006.

Communication

The website of the CNMMN publishes on a monthly basis its decisions on new minerals and changes in nomenclature. Some reports on mineral groups will also be published on the website soon after their approval. After agreement on the status of the pre-1959 mineral names and the non-approved post-1959 mineral names, a major revision of the list of mineral names will be published on the website.

6.9. National Representatives

Chairmen Emeritus

Joel D. Grice (1994–2002)

Joe A. Mandarino (1982–1994)

Akira Kato (1975–1982)

Members

Daniel ATENCIO

Vladimir BERMANEC

Andrei G. BULAKH

Roger DIXON
Pete J. DUNN
Mohamed A. El-Sharkawy
T. Scott Ercit
Stefan GRAESER
Ulf HÅLENIUS
Frédéric Hatert
Ole JOHNSEN
Paul KELLER
Kees Linthout
Andrzej MANECKI
Satoshi MATSUBARA
Jeffery MAUK
Gabor PAPP
Gian Carlo PARODI
Marco PASERO
Franz PERTLIK
Allan PRING
Gunnar RAADE
Jiri SEJKORA
Nurit TAITEL-GOLDMAN
Ragnar TÖRNROOS
Gheorghe UDUBASA
Pavel UHER
Nicholas Velilla
Mark D. WELCH
Zuxiang YU

COMMISSION ON ORE MINERALOGY (COM)

7.1. Current Officers

Roland K.W. MERKLE, Chairman

Kari K. KOJONEN, Vice-Chairman:

Nigel J. COOK, Secretary:

Corresponding member in the Council: Kari Kojonen

Prof. Roland K. W. Merkle (Chairman)

Department of Geology

University of Pretoria

Pretoria 0002, SOUTH AFRICA

E-mail: rkwm@scientia.up.ac.za

Dr. Kari K. Kojonen (Vice-Chairman)

Geological Survey of Finland

FIN 02150 Espoo, FINLAND

E-mail: kari.kojonen@gtk.fi

Dr. Nigel J. Cook (Secretary)

Natural History Museum (Geology)

University of Oslo

Pb 1172 Blindern

N-0318 Oslo, NORWAY

E-mail: nigelc@nhm.uio.no

7.2. 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 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.

7.3. Financial support

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

7.4. Interface with IMA activities and other international projects

COM participates in all major IMA events and interacts with other commissions, particularly CNMMN and CAM. COM is also enthusiastically involved in International Geoscience Project (IGCP) 486, with which it co-sponsored a session at the 32nd IGC.

7.5. COM activities in 2005

No business meetings were held in 2005, but the officers held an informal meeting in January. The COM website remains the main vehicle for communication with members.

Joint meeting of IMA-COM and

A session "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 K.W. Merkle gave a keynote lecture 'Large scale PGE anomalies in South Africa and possible mechanisms for the release of PGE to the environment'.

Short Course during the International Platinum Symposium

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

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 2005, the website has been updated. COM is also continuing to promote 'Virtual Ore Mineralogy', in which a series of descriptions of ore minerals with optical images will be available free of charge on the website. The desired format for the description of different ore minerals is under consideration and should be available within a few months to enable initial construction of the data file. After this, high-quality photomicrographs of ore minerals will be sought from ore mineralogists worldwide for the data file.

Report of COM sub-commission on sulphosalts

The sulphosalt sub-commission of COM (Yves Moëlo and Emil Makovicky) presented a final draft manuscript of their full-length report during the Summer of 2005. This manuscript has, subsequently, been reviewed by several specialists in the field and is a last round of revision. The final version will be available for download from the COM website during Winter 2005/6.

7.7. Summary of main activities in the period 2002-2006

COM website

COM created the new, independent website hosted at the Geological Survey of Finland

Scientific sessions at international meetings

VGP 30, EGS-AGU-EUG Joint Assembly, in Nice, France, 7th-11th April 2003.

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

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. The sessions are:

SYMPOSIUM G14 'Mineral Deposits' session on '*Gold deposits in diverse geological environments*' (co-proposed by COM and IAGOD). This symposium session received 108 contributions and was held as an all-day session on Saturday 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. The session received 52 contributions and was held as an all-day session on Sunday 22nd August.

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

Involvement in new IGCP project

A number of COM 'members' joined the vice-chairman and secretary in proposing the IGCP project "*Au-Ag-telluride-selenide deposits in Europe and in developing countries*". The project (IGCP 486; 2003-2007) has been

approved. In the assessment document, the evaluation committee noted, positively, that the project had the backing of an IMA commission.

Reports of COM sub-commissions

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

Other activities

COM intends to take a more active role in ensuring quality control of reported ore mineralogical data in the future. COM President Roland Merkle made a call for COM 'members' to become involved in international initiatives of the International Standards Organisation (ISO) aimed at establishing guidelines for standardisation of microbeam data acquisition routines.

COM had originally intended to hold a short course on Advanced Ore Mineralogy in Granada, Spain, between October 17th and 23rd 2004. These plans had to be cancelled during to difficulties in obtaining funding experienced by the Sociedad Española de Mineralogía, the local hosts for the event.

The cataloguing of collections of polished ore mineral specimens in museums and mineralogical institutions in digital form is under way, with discussion among various institutions on the optimal way to ensure a systematic and common approach.

A discussion document containing a list of standardized abbreviations of ore minerals has been prepared.

7.8. Workplan for 2006

19th General Meeting of IMA, Kobe, Japan, July 23-28th 2006

COM will convene the following sessions for the 19th General Meeting of IMA to be held in Kobe, Japan, July 23-28th 2006: Session 16: 'Mineralogy of Ore Deposits'. Conveners are: Nigel J. Cook (Norway), Kari Kojonen (Finland), Hiroharu Matsueda (Japan), Roland K. W. Merkle (South Africa) and Masaaki Shimizu (Japan). Keynote and invited lecturers are currently being targeted.

COM will hold a Business Meeting in Kobe, at which point officers will be elected to serve for the period 2006-2010.

The Business Meeting will also be present a provisional work plan for the period 2006-2010, and for evaluation of current activities.

The officers of COM intend to target areas on which we will focus in the coming period. At the time of reporting, four areas will be emphasised:

- (1) Development and completion of the 'Virtual Ore Mineralogy' website;
- (2) A more proactive role in ensuring quality control of reported ore mineralogical data in the future; and
- (3) COM's wish to help preserve valuable - and often irreplaceable - collections of polished ore mineral specimens, depositing them, ideally in museums and mineralogical institutions.
- (4) Reporting by the COM sub-commission on 'selenide and telluride mineralogy' appointed at the Business Meeting in Edinburgh.

COM wishes to use the opportunity of the Kobe meeting to intensify cooperation with other working groups and commissions, as well as to discuss with the IMA administration how we might secure some limited funding for our future activities.

In the next term (2006-2010), COM plans to organize Short Courses and Workshops - preferably in connection of large international scientific meetings, but also as stand-alone regional meetings, especially in such countries, where they have not been held previously (particularly in developing countries).

Nigel Cook
Secretary COM
Oslo, Norway. 17.11.2005

COMMISSION ON PHYSICS OF MINERALS (CPM)

8.1. Current Officers

Georg AMTHAUER, Chairman (georg.amthauer@sbg.ac.at)

Eiji OHTANI, Vice-Chairman (ohtani@mail.tains.tohoku.ac.jp)

Daniel NEUVILLE, Secretary (neuville@ipgp.jussieu.fr)

Corresponding member in the Council: Takamitsu Yamanaka

CPM Website (<http://www.sbg.ac.at/min/welcome.htm>)

Report of CPM 2005/10/31

Besides the three Officers, the commission has 9 members.

8.2. Overall objectives of the Com./WG

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 by workshop, conferences and publications.

8.3. Chief accomplishments in 2005

1) Meetings - CPM played following active roles in international and local meetings during 2004-2005. CPM organized and convened sessions in the following meetings: At the AGU2004 fall meeting (San Francisco, Dec. 13-17, 2004), a session of Deep Water Cycle was convened by a member of CPM (Convened by Jacobsen, Smyth, Ohtani, et al.); a session of Transformation Kinetics was convened (by Ohtani and ElGoresy) at the 3rd SMEC meeting at Florida International University (Miami, April, 17th-21st, 2005); a glass session (Moretto and Richet), spectroscopy session (Balan and Ongrin), High Pressure Mineral Physics (Frost et al.) session are organized in EGU meeting (Vienna, Austria, 25-29th, April 25-29th, 2005). CPM organized also two sessions, High Pressure Earth Science and Physics and Chemistry of Minerals at the JEAPSS (Japan Earth and Planetary Sciences Societies Joint meeting, Makuhari, Chiba, 22-26th, May, 2005).

For the forthcoming meetings, CPM involved session planning as follows. CPM submitted five proposed sessions on Mineral Physics for the IMA2006Kobe meeting, and sponsored two mineral physics sessions; Mineralogy and dynamics of the mantle and core (Convened by Bass, Hirose, Ohtani, Rubie) and Structure and physical properties of melts and glasses (Convened by Henderson, Kanzaki, Neuville). CPM involves the Molten Earth session of AGU2005 fall meeting, and is going to make an invited talk. CPM also takes initiative by convening a session on perovskite and post-perovskite and mantle dynamics in 2006 Goldschmidt conference to be held in Melbourne (25-28th August, 2006).

2) Administration - Business Meeting: CPM made a business meeting at IGC meeting, Florence, 2004 and discussed the details of the sessions to be proposed for the IMA 2006 Kobe meeting. CPM submitted five proposed sessions on Mineral Physics for the IMA2006Kobe meeting, and sponsored two mineral physics sessions; Mineralogy and dynamics of the mantle and core (Convened by Bass, Hirose, Ohtani, Rubie) and Structure and physical properties of melts and glasses (Convened by Henderson, Kanzaki, Neuville).

3) Bulletins, News: CPM (Ohtani) report a review on "Water in the mantle" in vol.1 in Elements.

Website: Website of CPM is established in 2003 and continuously maintained for communication of the members

Publication: A member of CPM (Ohtani) is now organizing a GSA book "Advance in Mineral Physics", containing 14 review papers on high pressure mineral physics following the IMA session held in 2004 IGC Florence meeting. The book will be published by early 2006.

8.4. Workplan for 2006

Potential targets: The most important target is to make success of the IMA2006 Kobe meeting. For this purpose, CPM members work to organize the sessions and advatize the sessions as members of organizing committee, program committee, and convenors of the sessions for the meeting.

Business Meetings: Business meeting is planned at the IMA Kobe meeting.

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

Publication: A possibility to make a special issue based on the IMA2006 Kobe meeting is considered.

Books - Special publication: Special publication on advance in Mineral Physics as GSA volume will be published early 2006.

8.5 List of National Representatives

Besides the three Officers, the commission has 9 members.

Georg AMTHAUER (Chairman)

Hans ANNERSTEN,

Michael GAFT,

Ahmed H. HASHAD,

J. MARKGRAAF,

Daniel NEUVILLE (Secretary),

Eiji OHTANI (Vice-Chairman),

Nancy ROSS,

Silvio Roberto Farias VLACH

Takamitsu YAMANAKA

WORKING GROUP ON Astromineralogy (WGA)

1.1. Current Officer

Chairman : F. Rietmeijer

Frans J.M. Rietmeijer

WORKING GROUP ON ENVIRONMENTAL MINERALOGY (WGEM)

10.1. Current Officers

Chairman : David Vaughan

The IMA Working Group on Environmental Mineralogy (WGEM) is in the process of being formed with D J Vaughan as initial Chairman.

The first formal event 'sponsored' by the WGEM was a session at the 2005 Goldschmidt Conference in Moscow, Idaho on the subject of "Mineralogy and Geochemistry of Acid Mine Drainage and Metalliferous Minewastes". A total of 22 papers were presented in two sessions, one an oral session and the other a poster session.

Contributors to these sessions have been invited to contribute articles for a special (part) issue of the journal "Applied Geochemistry" which is being (guest) edited by John Jambor and David Vaughan and should appear by mid- 2006.

The WGEM is also convening a session on "Environmental Mineralogy" at the upcoming IMA General Meeting in Kobe, Japan in August-September 2006 and a wide ranging programme of invited and contributed papers is now in the process of being assembled.

WORKING GROUP ON INCLUSIONS IN MINERALS (WGIM)

11.1. Current Officers

Li Zaolin, Chairman

Mamoru Enjoji, Vice-Chairman

Serguey Smirnov, Secretary

Corresponding member in the Council: Anthony Naldrett

11.4. Interface with other organizations

ACROFI coordination Committee will be set up during the first ACROFI to promote the communications among mineral inclusion researches in Asia.

11.5 Chief accomplishments

Dr. Smirnov, the WGIM Secretary, represented WGIM at XVIII ECROFI Meeting, which has been held in Siena, Italy, on July, 2005. He announced the IMA Meeting Session on Inclusions in minerals in the course of ECROFI. The ECROFI still remains one of the most important meetings of the mineralogists and petrologists, who use the melt and fluid inclusions in minerals for their investigation. More than 170 papers were presented in oral and poster forms. The presentation were organized in 6 sections, which cover the majority of scientific areas where inclusions are used as a source of important information. In the course of final discussion the participants confirmed the international importance of ECROFI and decided not to change the title of the Conference.

The WGIM has gained support and funding from various organizations.
An official website was built.

11.7 Workplan

The WGIM is co-sponsoring the First ACROFI with Nanjing University in May 2006. The conference has been announced through fluid-inclusion mailing list group.

During the 19th IMA, the WGIM will re-elect officers for next term.

Advices from the IMA are welcomed. The current WGIM officers will present a four-year general report during the 19th IMA in

July 2006 and announce candidates for the working group officers of the next term.

The WGIM will co-sponsoring the 30th Anniversary Conference on Inclusions in Minerals and Mineralization and Diagenesis Processes in November 2007 in Guangzhou, China

11.8. Kobe

In the last half of 2005 WGIM has focused the efforts to the preparation and advertisement of the Session dedicated to the study of fluid and melt inclusion in minerals at 19 IMA Meeting in Kobe, 2006.

WGIM is considering the possibility of publication of selected papers from the Session in "Russian Geology and Geophysics" journal (English version of *Geologiya i Geofizika*, which is printed and distributed worldwide by American Geophysical Union).

Sergey Smirnov, secretary of WGIM
(31/10/05)

WORKING GROUP ON MINERAL EQUILIBRIA (WGME)

12.1. Current Officers

Leonid L. PERCHUK, Chairman, Moscow State University, Moscow, Russia.

Masaki AKAOGI, Vice-Chairman, Gakushuin University, Tokyo, Japan.

Oleg SAFONOV, Secretary (reporter), Institute of Experimental Mineralogy, Russia.

Corresponding member in the Council: Ian Parsons

Oleg Safonov, reporter

National representatives: H.-J. Massone (University of Stuttgart, Germany), S. Poli (University of Milan, Italy), C. Chopin (E.N.S., France), S. K. Saxena (University of Florida, USA).

12.2 Overall objectives of the Com./WG

The WGME includes geoscientists who works with the experimental and thermodynamic modeling of mineral equilibria and its application for deciphering of physico-chemical and geodynamic conditions of formation both magmatic and metamorphic rocks. From 1978 than the WG was organized, the major rule was to be open for everybody and its activity includes just two items: (1) international meetings and (2) special volume publications. Anyway, the WG includes about 10 constant members.

12.5 The main activities during 2005

The WGME organized and participated in the following events:

1. The special session VGP27 “Exhumation of rocks metamorphosed under extreme conditions. UHP and UHT complexes: mechanisms, rates, models” (conveners Dr. Taras V. Gerya and Prof. Leonid L. Perchuk) has been organized at the European Geoscience Union Meeting (28 April 2005, Vienna, Austria). The session included 6 oral presentations.
2. The special volume of Lithos organized by the WGME is being prepared. This volume will include extended papers presented to the EGU meeting in Vienna 2005.
3. Annual International School on Geosciences - 2005, 2-8 September, Odessa, Ukraine.

12.6 Chief problem encountered in 2005

Funding of officers for attending conferences organized by the WGME.

12.7 Workplan for 2006

1. The WGME is organizing two special sessions at European Geoscience Union Meeting-2006, Vienna, Austria:
 - Rates of tectono-metamorphic processes: insights from observations and numerical modeling Conveners: Dr. Taras V. Gerya and Prof. Leonid L. Perchuk
 - Experiment at HP-HT: application in geosciences. Conveners: Prof. Leonid L. Perchuk and Dr. Oleg G. Safonov
2. The WGME expects a special volume of Lithos summarizing the best results of the EGU-2006 symposia.
3. The WGME is organizing a special session “Phase transitions and thermodynamic modeling of minerals and rocks” at the IMA Meeting in Kobe, Japan. Conveners: Prof. M. Akaogi, Dr. Y. Fei, Dr. Stefano Poli, Prof S. K. Saxena.
4. Annual International School on Geosciences - 2006, 2-8 September, Odessa, Ukraine.

Potential targets includes a development of new methods for studying the mineral equilibria at HP-HT conditions. We believe that present officers are working successfully, and no recruitment of new officers is not planned.

Dr. Oleg G. Safonov
Executive secretary of the WGME

(15/11/05)

WORKING GROUP ON ORGANIC MINERALS (WGOM)

13.1. Current Officers

Norbert VAVRA, Chairman, Institut für Paläontologie, Vienna - Austria

Waltraud Winkler, Secretary, Institut für Mineralogie, Universität Salzburg, Austria

Corresponding member in the Council: Nickolai Yushkin

13.2. Overall objectives of the WGOM

Revision of organic minerals; establishment of a list of valid and rejected names for organic minerals; compilation of data concerning organic minerals.

13.3. Business meetings

none in 2004 (who would pay travelling costs ??)

Main activities: revision of organic minerals, contributing to the establishment of a list of valid (organic) mineral names (see above).

Financial support: none

13.4. Interface with projects:

none for the group

Possibly: stand-alone projects of single members.

13.5 Chief accomplishments in 2004

Bulletins/News: "Newsletter 5/2004" sent by e-mail resp. ordinary mail to members of WGOM

Website: our homepage has been removed from the internet, due to administrative troubles – this has not been our fault; we are just trying to find a possibility to establish it again.

Publications (some examples only):

KOSMOWSKA-CERANOWICZ, B. (2003/2004): Quaternary Amber-bearing Deposits on the Polish Coast. - *Z. Angew. Geol., Sonderheft 2*: 73-84.

KOSMOWSKA-CERANOWICZ, B. (2004): Infrared spectroscopy of burmite and Chinese carvings from the museums and private collections. - *Prace Muzeum Ziemi 47*: 37-42.

KOSMOWSKA-CERANOWICZ, B. (2004): Bernstein in Klumpen. In: *Burnstein Myrta*. Verlag Excalibur, Bydgoszcz., 222-277. [in English also] -Lumps of amber p. 222-277.

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

KOSMOWSKA-CERANOWICZ, B. (2004): Holocene nagromadzenia bursztynu w rejonie Gdańska. - *Prace Muzeum Ziemi 47*: 57-62.

KOSMOWSKA-CERANOWICZ, B. & RITZKOWSKI, S. (2004): The saved fragment of the Königsberg Amber Collection in Göttingen. - *Prace Muzeum Ziemi 47*: 109-124.

KOSMOWSKA-CERANOWICZ, B. (2004): Klumpen, Tropfen und Bernsteinvarianten. – p. 222 ff. In: ZAK & al. (eds.): *Myrta Bernstein – das Leben und Werk von Lucjan Myrta*. (Contributions in Polish, English and German)- - 303 p., Excalibur Bydgoszcz, Gdansk.

KRUMBIEGEL, G. (2004): 10 JAHRE BERNSTEINMUSEUM BAD FÜSSING, 1992 – 2002 (BIBLIOGRAPHIE). – *PRACE MUZEUM ZIEMI, 47*: 125 – 127.

KRUMBIEGEL, G. & GIERLOWSKA, G. (2004): Bernstein in der Heilkunde. (German translation from Polish). – 19 p., Bursztynowa Hossa, Gdansk.

KRUMBIEGEL, G. & KOSMOWSKA-CERANOWICZ, B.: Bitterfelder Bernsteinarten und –varianten im Vergleich mit anderen Lagerstätten. In: R.Wimmer, Holz U., Rascher J. (Eds.) *Bitterfelder Bernstein: Lagerstätte, Rohstoff, Folgenutzung. Exkursionsführer und Veröffentlichungen GGW Berlin 224*, 45-57.

KRUMBIEGEL, G. & KRUMBIEGEL, B. (2004): Jan Koteja, + 19. August 2004 (Nachruf). – Bursztinisko (Newsletter Intern. Amber Ass.) 22 (2004): p. 16 (in Polish). Gansk.

VAVRA, N. (2004): Some „amber-like“ organic minerals – a critical review of their chemistry and mineralogy. – Prace Muzeum Ziemi, **47**: 9 – 15.

VAVRA, N. (2004): Chemofossils from Karpatian Sediments. – 311 – 316. In: BRZOBOHATY, R., CICHA, I., KOVAC, M. & RÖGL, F. (Eds.): The Karpatian. A lower Miocene Stage of the Central Paratethys, Masaryk University, Brno.

VAVRA, N. (2004): Analyse von organischem Material aus der Tongrube Mataschen bei Marensdorf (Gemeinde Kapfenstein, Steiermark). – Joannea Geol. Paläont. 5: 269-275.

WINKLER, W. (2004): ADVANTAGES OF FT-RAMAN SPECTROSCOPY IN AMBER RESEARCH. – PRACE MUZEUM ZIEMI, 47: 29 – 35.

Exhibitions:

Kosmowska-Ceranowicz, B. (Warszawa, Museum of the Earth):

Amber exhibition in three different cities in Rumania (Bucarest, Tulcea and Buzau)

Awards – in connection with amber research - for members of WGOM:

KRUMBIEGEL, G. has received:

- (1) Honorary membership of the “International Amber Association in Poland” (as the first foreign member !)
- (2) Honorary member and golden medal of the “Internationaler Bernsteinhand-werkerverband” (May 2004, Gdansk)

New laboratory techniques:

Kosmowska-Ceranowicz (Warszawa) has started a new program/project in her course of studies of fossil resins (=ambers): application of stereoscan electron microscopy. Goal: distinction between natural amber, pressed amber and treated amber.

Teaching:

Vávra, N.: Guided tour for students to two amber exhibitions in Lower Austria in 2004.

For winter term 2005/06: Lecture and seminar on amber studies for graduate students.

13.6 Chief problems encountered in 2005:

The WGOM is facing various problems in 2004 and 2005:

- (a) Within the last few years a number of experienced members have died:
(Prof. Bouska, Praha, Prof. Savkevitch (he had been our chairman for many years), Prof. Kedves – Hungary, and Prof. Koteja – Poland.
- (b) Our secretary, Dr. W. Winkler has lost her job at the university, it will be a problem how she can continue being active within our WG in future.
- (c) Funding/Meeting: most members of our WG have no financial resources for attending meetings, and often only very limited funding for science at all.
- (d) A number of members on our list (see attachment !) is not active at all; many of them have not answered e-mails (Newsletters) since many years.

13.7. Workplan for 2006:

Administrations

Recruitment of new (active !!) members would be urgently needed: the age of the remaining, few active members will also be a problem in near future – except for Dr. Winkler – myself, being one of the youngest – am aged 65 !!

Any suggestions in this direction are welcome !!

Objectives:

Main goal for the years to come will remain the establishment of a list of valid and rejected names of organic minerals.

Communication

Website: website will hopefully be re-established in near future.

Newsletter: will be continued

Publications: will be continued

One example, being in print right now:

VAVRA, N. (2005): Bernstein und verwandte Organische Minerale aus Österreich. – Beitr. Paläont. 29: 27 pages.

This publication, being a summarizing revision of “amber” from Austria, is just an example contributing to the general goal of our WG to establish a list of valid (organic) mineral names.

13.8. Preparation for IMA Meeting in Kobe:

Prof. Kazue Tazaki (Kanazawa University, Japan, member of WGOM) is involved in organizational tasks (covenor) for the IMA 2006 at Kobe.

Environmental and Applied Mineralogy

24. Bio-geo interface in minerals (WGOM, ICAM)

13.9 List of Officers, National Representatives and members

Dr. Harald Binder

Prof. Dr. Ahmed El-Kammar

Dipl.Ing. G. Heck

Prof.Dr.B.Kosmowska-Ceranowicz

Dr. Elena N. Kotelnikova

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14.2. Objectives

The creation of a Committee for Internet and Computer Applications (CICA) within the IMA was accepted by the IMA Council at the 18th IMA General Meeting in Edinburgh, September 2002, to replace the former IMA Working Group on Databases and Computer Applications.

The objectives of this committee are to collect, document and help improve computer and internet resources in the field of mineralogy, including databases and software. The committee supports activities of the IMA and its WG/commissions by providing advice and expertise on issues related to databases and the IMA website

14.7. Projects

The IMA website

The CICA helped to develop and maintain the new version of the IMA website in 2003. The current version was build up by Maryse Ohnenstetter (IMA General Secretary) and Christine Lecluse in 2004. The CICA gave technical advice for the development and maintenance of this version, and will keep on providing technical help and suggestions for future evolution. It is suggested that the IMA website should evolve towards a dynamical form, in order to facilitate the routine maintenance (posting new documents, changing addresses, adding links...) without having to modify html code.

An interchange format for mineralogical databases

A long-term goal of the IMA-CICA committee is to start developing an interchange file format for the various mineralogical databases. Such an ambitious project of attempting to develop a worldwide standard could only be

conducted within the scope of the IMA. A communication entitled "*A universal interchange file format for mineralogical data: What could be in there?*" (available on the IMA website) was presented at the MM5 meeting in Paris in 2004.

In 2005, we started to collect information on other projects related to the organization and diffusion of data. One such emerging international project is WikiData, from Wikimedia (<http://en.wikipedia.org/wiki/Wikimedia>). In 2006, we will start contacting people and establish the basic technical requirements of an interchange format for mineralogical databases.

We also plan to create in 2006 a page in the IMA website providing links to mineralogical databases and software.

14.8. Workplan for Kobe 2006

The IMA meeting in Kobe will give us the opportunity to recruit new participants to the *interchange format for mineralogical databases* project. These participants will be in charge of (i) subsets of the format (e.g., interchange format for spectroscopic data, chemical data...) and (ii) insuring the compatibility with other existing database formats.

END of Appendix 3

Maryse Ohnenstetter
IMA Secretary

8 March 2006