

## **International Union of Geological Sciences**

REPORTING FORM FOR CONSTITUENT BODIES

**2003**

# **International Mineralogical Association**

**(IMA)**

## **FIRST PART**

### **1. TITLE OF CONSTITUENT BODY**

International Mineralogical Association (IMA)

IMA General Website: [www.obs.univ-bpclermont.fr/ima](http://www.obs.univ-bpclermont.fr/ima)

### **SUMMARY**

IMA comprises 38 Mineralogical Societies or Groups. During the past five years, IMA has sponsored, co-sponsored sessions generally through Commissions and Working Groups in 8 International Congress, comprising the two IMA General Meetings in Toronto (1998) and Edinburgh (2002), the SGA/IAGOD International Congress on Mineral deposits (1999), the International Geological Congress in Rio (2000), the 4th International Mineralogy and Museums Meeting (2000), the European Crystallography Meeting (2000), the Applied Mineralogy symposia (2000), and the first EGS-AGU-EUG Joint Assembly in Nice, 2003. IMA also participated to ECROFI symposia, EMU schools and to International Gemmological Conferences (Annex 2 - Table 1). Three Commissions and Working Group, that on Applied Mineralogy, Ore Mineralogy and Mineral Inclusions regularly organised short courses and workshops (Annex 2 - Table 2). 7 Commissions and Working Groups provided books with mineralogical tables and classification of minerals, and special issues in International Journals (Annex 2 - Table 4).

The Council elected in 2002 comprises Ian Parsons, President, Takamitsu Yamanaka, First Vice-President, Nicolai Yushkin, Second Vice-President, Cornelis Klein, Treasurer, Maryse Ohnenstetter, Secretary, Alain Baronnet, Ian Campbell, Kari Kojonen, Marcello Mellini, Werner Schreyer, Councilors.

Since the General Meeting in Edinburgh held in September 2002, two Working Groups were created, one on Astromineralogy and the second in Environmental Mineralogy, as well as a Committee on Internet and Computer Development. The latter plans to develop services at the IMA Website and to increase direct communication between mineralogists around the world.

Most of the information and decision reported below were presented during the next Council Meeting which occurred in Nice on 5 April 2003. This Council has reinforced its policy within two major objectives.

The first objective is to develop the regular participation of IMA in International Congress. This was realized in 2003 with the involvement of several IMA Commissions and Working Groups in the first EGS-AGU-EUG Joint Assembly, in Nice, 2003, and during the Goldschmidt Conference in Kurashiki. In 2004, all the IMA Commissions and Working Groups except one, will organize sessions during the 32nd International Geological Congress in Florence. The executive committee of the IGC has accepted the sponsoring of IMA for 24 sessions and its co-sponsoring for 6 sessions. In 2005, IMA will be significantly involved in the organisation of sessions during the Goldschmidt Conference in Waterloo, Idaho. The President of IMA belongs to in the organizing committee. The participation of IMA to this type of Congress is encouraged to strengthen the link between Geochemists and Mineralogists.

The second objective of IMA is to develop communication within mineralogists, and also between mineralogists and scientists from other fields of the Geosciences. The Website of IMA was revisited in 2003, thanked to the new committee on Internet and Computer development directed by B. Devouard and to facilities provided by P. Tremblay from the Mineralogical Society of Canada. A new graphic chart and organization of the Website are planned to occur in 2004, and the site will received a proper name. This will be done by a scientist engaged for one month to help the Secretariat of IMA.

Websites controlled by Commissions were significantly modified in 2003, notably that of the Commission on new Mineral and Mineral Names which hosts datafiles of minerals defined since 1959. This site permits also direct link between members of CNMMN to vote on proposals for new minerals and nomenclature of mineral groups. The Websites of some other Commissions are under development or shared with organisation as in the latter case, the website shared by ICAM and the Commission on Applied Mineralogy.

A new Magazine in Mineralogy, Geochemistry and Petrology is in the process to be created. The international aspect of this magazine to report news, as well as significant scientific papers, is of great interest for IMA. The fact that this magazine could create a link with Geochemists agrees quite well with the IMA policy which favours participation of IMA in International Meetings where Mineralogists and Geochemists are involved. The President of IMA, Ian Parsons belongs to the Executive Committee of the New Magazine.

A competition is planned for IMA to have a logo. The winner will receive a price of 200 \$US during the 32<sup>nd</sup> IGC in Florence, August 2004.

The 19th General Meeting of IMA will occur in Kobe, Japan. There are two proposals for the venue of the 20th General Meeting, in 2010, either in Paris or Budapest.

A business meeting will occur in Florence during the 32nd IGC to review the scientific activities of Commissions and Workings Groups and to name Officers of New Working Groups.

**Other information:**

Routine work for the secretariat involve the checking of the different IMA files of Delegates belonging to Commissions and Working Groups, the list of National Representatives, and the circulation of information through a double link when possible: that of the National Representative and that of a permanent from the Mineralogical Society, either the Secretary or the President.

Financial and secretarial records from IMA are in the process to be recovered before being send to MSA, Washington, DC.

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## **2. OVERALL OBJECTIVES**

The IMA is the only truly international organisation promoting mineralogy. Mineralogy is one of the oldest branches of science.

Today it plays a vital role in human welfare, underpinning metalliferous mining, exploitation of industrial minerals, petroleum exploration and extraction, waste disposal, the remediation of pollution, and soil science.

Mineral surfaces stand at the interface between the atmosphere, the biosphere and the solid Earth, and are crucial to understanding climate.

Mineralogy is fundamental to our knowledge of the chemistry, mode of formation and age of rocks, including extraterrestrial materials which give us clues to the origin of the solar system and the likelihood of life on other planets.

Experimental mineralogy, which has strong overlaps with materials science, allows us to deduce the nature of the deepest, most inaccessible, parts of the Earth.

To this end the activities of IMA include as clearly indicated in the Constitution:

- (a) The promotion of intercourse among mineralogists of all nations by organizing meetings and field excursions and by sponsoring publications of mineralogical interest.
- (b) The maintenance of Commissions and Working Groups to examine and report on certain aspects of mineralogical practice and of committees to expedite other matters.
- (c) The participation in action with other international groups having mineralogical interests.

## **3. FIT WITHIN IUGS SCIENCE POLICY (relate goals to IUGS scientific objectives)**

IMA has traditionally been involved both in the basic and the applied part of mineral sciences. IMA has built strong bridges to all other fields of Geosciences where solid matter is present as a component of the geo-system studied. IMA keeps similarly strong connections with related fields in environmental and material sciences.

From among the five high-priority earth science activities listed in the “International Earth Science in the 21st Century” booklet of IUGS, IMA is directly related to four (#1, #2, #3, #5).

## **4. ORGANISATION (broad description)**

The members of IMA are 38 national mineralogical societies or groups, each of them having a variable amount of mineralogists. Only one Member Society from any one country may join.

The main scientific activity of IMA is its four-yearly General Meeting, Edinburgh 2002 being the 18<sup>th</sup>, and Kobe the 19<sup>th</sup> in 2006. Ordinary Business Meetings of Delegates are to be held as often as deemed necessary by the Council, but at least once every four years (during the General Meeting of IMA). According to the Council decision in Edinburgh 2002, Business Meeting has to occur more frequently, that is every two years instead of four, in order to maintain a more regular contact between Delegates, and to sustain IMA scientific activities. The next Business Meeting is planned to occur in Florence (20-28 August, 2004) during the International Geological Congress (IGC).

The work of the Association is conducted at the Business Meeting of Delegates by the Council. Each Member Society is represented at Business Meetings by Delegates not exceeding in number the balloting power of that Society.

The Council consists of the President, the First and Second Vice-Presidents, the Secretary, the Treasurer, five ordinary Councilors, and the retiring President. The President, Secretary and Treasurer form the Executive Committee. The members of the Council shall normally hold office for four years.

IMA maintains Commissions to carry on its work. New Commissions are initiated first as Working Groups. Since Edinburgh 2002 (see paragraph 7) 8 commissions and three Working groups exist. During the annual meeting in Nice, 2003 proposals for the creation of two Working Groups were encouraged as well as the constitution of a Committee on Internet and Computer development. Officers of the Commissions and Working Groups comprise a Chairman, a Secretary, and in some cases a Vice-Chairman; they are elected by the Delegates at the Business Meetings and remain in charge for a period of four years. According to a new amendment voted in Edinburgh, the Council will have the possibility to replace the Officers of a Commission/Working Group when it deems necessary between Business Meeting (see paragraph 7).

Apart from the activity carried on directly through its various bodies (Delegates, Council, Commissions and Working Groups) IMA sponsors or co-sponsors scientific meetings, symposia,

workshops, schools in specific mineralogical fields during the years intervening between business meetings.

## **5. EXTENT OF NATIONAL/REGIONAL/GLOBAL SUPPORT FROM SOURCES OTHER THAN IUGS**

IMA is closely co-operating with its members: the national mineralogical societies (or with mineralogy related sections of national geological societies) from all continents. IMA is mainly supported by small annual contributions from 38 national mineralogical societies world-wide.

General Meetings are founded by Member Societies, as well as by some private companies. IMA has very little money of its own, and no paid staff, so the responsibility for its meetings, including the financial risks, falls on the Min. Soc. of the host country.

The workload of some Commissions/Working Group, notably that of the Com. on New Mineral and Mineral Names, is particularly high. This is supported by the respective employers. Members of the Council are travelling at their own expenses, or that of their respective employers. This is true also for Officers of Com./WG.

## **6. INTERFACE WITH OTHER INTERNATIONAL PROJECTS**

IMA gives regular scientific sponsorship to IUGS by organizing symposia at its own General Meeting which occurs every 4 years, and at other international meetings, such as the International Geological Congress. (For current details see paragraph 7.). In addition, IMA was now involved in the first EGS-AGU-EUG Joint Assembly held in April 2003. The policy is to participate to other international Congress, as the Goldschmidt Conference (2003), or to any other specialized Meeting in which Mineralogical sciences could contribute significantly.

Traditionally, collaboration has been established between IMA and other related organisations/projects:

- International Council for Applied Mineralogy (ICAM); At the ICAM business meeting in Göttingen (2000), it was agreed to continue the procedure, first determined at the 1993 ICAM meeting in Fremantle, Western Australia by applied mineralogists from IMA and ICAM, in which ICAM will hold its quadrennial meetings at the half-way point between the quadrennial meetings of IMA. It was further agreed that IMA-CAM would participate in the sponsorship of those ICAM meetings or in some of the sessions at the ICAM meetings. In a reciprocal arrangement, ICAM would sponsor some or all of the CAM-sponsored sessions at the quadrennial IMA meetings.
- European Mineralogical Union (EMU); there is a co-operation between IMA and EMU to manage common projects. E.g.: directory of mineralogy related institutions, and EMU school. The President or Secretary of IMA and EMU are regularly invited to participate to the Council Meeting of the other association; EMU and IMA have jointly sponsored or co-sponsored 7 sessions in the first EGS-AGU-EUG Joint Assembly in Nice, April 2003, and there is a general agreement to sponsor session in most International Meetings.
- International Association of Geochemistry and Cosmochemistry (IAGC);
- International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI);
- International Association on the Genesis of Ore Deposits (IAGOD); This lead to an active participation of IMA in the SGA/IAGOD Meeting (1999) and in the IAGOD meeting in Namibia (2002).
- International Geological Correlation Programme (IGCP);
- International Union of Crystallography (IUC). IMA regularly participated to European Crystallography meetings.
- International Gemmological Association). IMA regularly participated to European Crystallography meetings.
- ECROFI - Participation in conferences on Current research on Fluid Inclusions.
- Museums around the world.

## **7. CHIEF ACCOMPLISHMENT IN 2003**

Activities engaged during the year 2003 were decided during the Council Meeting in Nice. According to the IMA policy, the main targets involve the participation of IMA within International meetings, the development of activities within Commissions and Working Groups, the creation of new Working Groups, and the development of communication through the IMA Website, Newsletters and by

direct electronic mailing between the IMA community. Routine work involves the regular updated of the list of National Representatives and Delegates among the diverse Commissions and Working Groups.

## **7.1 International meetings**

### *7.1.1 EGS - AGU - EUG Joint Assembly, 7-11 April 2003, Nice, France*

Four commissions and Working group participated to the first EUG-AGU-EGS Joint Assembly. Following this experience, the Council is not in favor of IMA participation in such giant meetings, having only little application for mineralogists.

The Council maintains the involvement of IMA in IGC meetings because this favors the unity of Earth Science. However, on the practical point of view, communication of proposals for sessions for the next IGC should be done earlier than that has been done for the Florence IGC meeting, 2004.

The Council encourages IMA to participate in meetings involving mixing of mineralogists and geochemists. Preliminary contacts were taken in 2003 with the organisers of the Goldschmidt conference in Moscow, Idaho, USA, 2005 and the IMA President should go on with the project of organizing joint sessions

### *7.1.2 Next General meeting in Kobe, Japan, 2006*

The e-mail addresses of Japanese members of IMA Commissions and Working Groups have been sent to Officers of Com/WG to help in the preparation of sessions for the IMA General Meeting in Kobe. Most of the IMA commissions and working groups could be involved in the organisation of sessions according to the preliminary themes proposed. A session more specifically devoted to Ore Mineralogy has to be requested.

### *7.1.3. Budapest project for a general meeting in 2010*

The advantages for a General Meeting to occur in 2010 in Budapest were considered. The President of IMA has contacted the Mineralogical Societies or Groups involved in the Budapest project, that is those from Austria, Hungary, Romania and Slovakia, to get their opinion on this project.

### *7.1.5. 5th Cannes Water Symposium, 2004*

There was a possibility for Working Groups whose researches involves the role of water in mineral exchanges to organize workshops during the 5th Cannes Water Symposium in 2004.

## **7.2 Business meeting in Florence**

Preliminary work was done to prepare a Business Meeting during the 32nd IGC congress in Florence (August 20-28, 2004). There, the activity of Commissions and Working Groups will be examined, Officers of the new Working Groups elected, the choice of the venue of the 20th General Meeting, and the selection of a logo for IMA.

## **7.3 Commissions and Working groups**

Proposals for the creation of two new Working Groups, on Astromineralogy and Environmental Science, and of a Committee on Internet and Computer Development were favorably considered during the Council meeting.

As the use of the term "commission" was discussed during the Council Meeting, the opinion of Officers of Commissions and Working Groups has been asked on the preservation of the name commission. Several answers arrived which favored the preservation of this term.

## **7.4 Website and Logo competition**

The address of the Website of IMA is now located in Clermont at the following address: [www.obs.univ-bpclermont.fr/ima](http://www.obs.univ-bpclermont.fr/ima). The Webmaster is Bertrand Devouard (e-mail: [devouard@opgc.univ-bpclermont.fr](mailto:devouard@opgc.univ-bpclermont.fr)). Accounts of the activities of Commissions and Working Groups as well as various mineralogical data and files are directly accessible from the IMA Website. The site is linked to those of Mineralogical Societies. The competition for the Logo will be published in Newsletters and information is provided on the Website. Local mineralogical journals or bulletin, and the Website of Mineralogical Societies may provide information about the competition.

## **7.5 Creation of a new magazine**

The Council agreed to follow the project on the creation of a new magazine, which will record information for mineralogists and geochemists. The week after the Council meeting, the IMA President

and Secretary attended a meeting presided over by Rod Ewing on this project. Questions should be asked concerning the cost of the new magazine.

#### **7.6 Relationship with other organisms.**

The IMA Secretary has participated to the 16<sup>th</sup> Meeting of EMU in Nice, and the EMU Secretary did the same and participated to the Annual Council Meeting of IMA in Nice.

EMU and IMA agreed to co-sponsor sessions in international meetings whenever it is possible.

#### **7.7 Information provided to Officers and National Representatives**

*Information provided to Officers of Commissions and Working Groups:*

- \* Preparation of the EGS - AGU - EUG Joint Assembly, 7-11 April 2003, Nice.

Question asked on the experience to participate to such meeting.

\* Requirement to get additional information on the activity of Com./WG and to check the list of National Delegates

\* Preparation of the Kobe Meeting: Files sent to Officers with list of Japanese members of Com./WG

- \* Information on the deadlines for the Florence 32nd IGC

- \* Circular in September dealing IMA news and with the minutes of the Nice Meeting concerning

- The Website project for IMA was sent. In addition, it was asked to Officers to develop the Com./WG Website within the IMA site or independently, provided a link exists between the two; and to redefine and/or precise the mission of Com/WG

- It was asked to Officers for a short text which presents the IMA Com./WG (mission, activities) in order to be published in Newsletters (to be received before the 10th of October)

- It was informed on the normal transformation of Working Group into Commission

- It was asked for the annual report

- It was notified of the occurrence of a Business meeting in Florence.

*Information provided to National Representatives*

They were informed on the Kobe Meeting, the Florence Meeting and on a symposium on Medical Geology, Nutrition and Cancer.

There were individual contacts with National Representatives to modify the list of National Delegates.

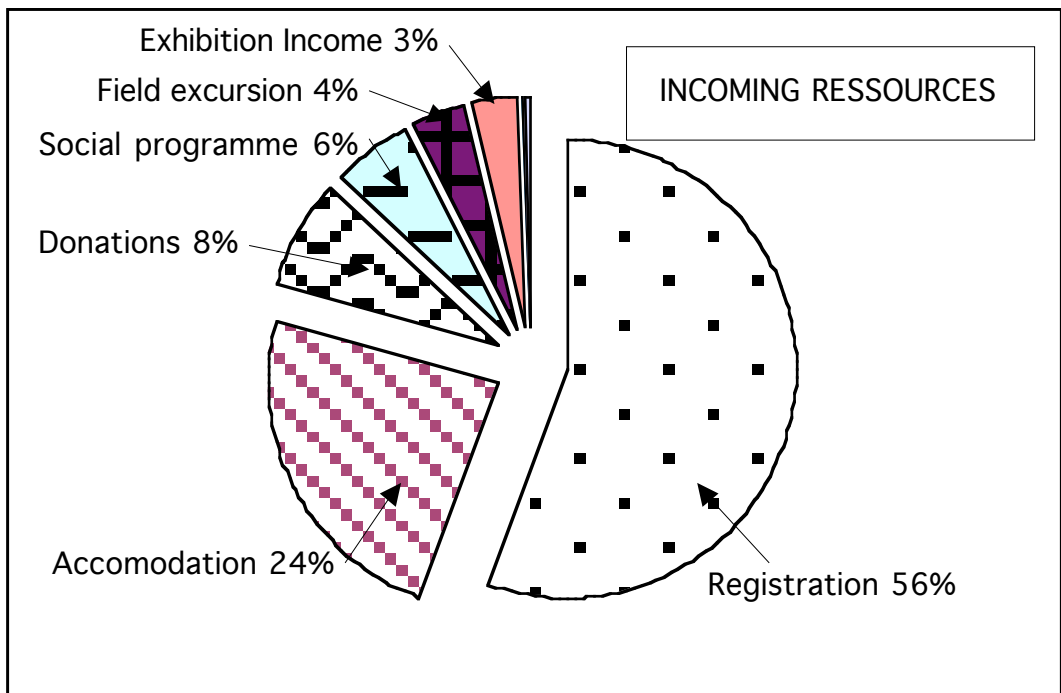
In addition, since August, exchanges occurred with the National Representatives of USA and Germany to get additional information on the life of the Mineralogical Society, the number of Council meeting, and related minutes, the existence of Bulletin. Their opinion was asked on the creation of a double link, the way information should be better transferred to them, and the use of the name commission; information was given on the logo competition and the evolution of the IMA Website. These exchanges will continue with the other National Societies in January.

#### **7.8 Final Account of the IMA General Meeting in Edinburgh**

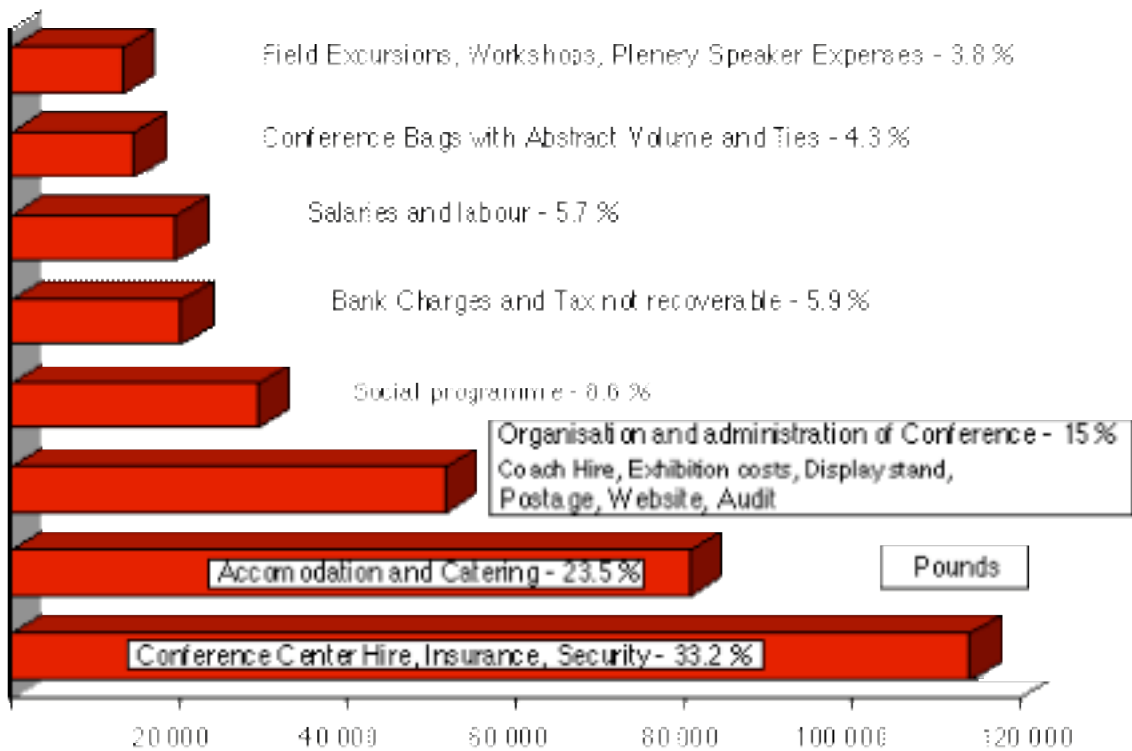
The final finances of the General Meeting held in Edinburgh provided by the Mineralogical Society of Great Britain and Ireland are reported in Annex 1 (Table 1). The financial outcome was a loss of UK £34 493 born by the Mineralogical Society of Great Britain and Ireland. The loss represents 10% of the total amount of resources expended. The main resources and expenditures are reported in two figures below.

The diverse expenditures have been gathered under 8 items for clarity (See the detailed expended resources reported in Annex 1 Table 1 for detailed information). The largest expenditure corresponds to the Hire of the Conference Center and related Security Service. Broadly speaking the registration fees, which represent more than a half of the income, have covered the Hire of the Conference Center and the cost for organizing the General Meeting.





**Expended resources**



Donations account for 7,6 % of the total income and the main suppliers are Mineralogical Societies and some private companies. 80% of the income came from 10 countries although 44 countries were represented. Meeting bursaries, funded by the following larger mineralogical organisations financially supported many Delegates from smaller countries:

- Mineralogical Society of America
- Mineralogical Association of Canada
- Société Française de Minéralogie et de Cristallographie
- Società Italiana di Mineralogia e Petrologia
- Mineralogical Society of Japan
- Geological Society of Australia
- Mineralogical Society of Great Britain and Ireland.

The frequency diagram on the number of participants to the Edinburgh Congress by countries is shown again in Annex 1 (Table 2) as the previous diagram reported in the 2002 IUGS report was probably distorted during reduction of the initial size of the figure.

### 7.9 IMA Archives

Since 2002, IMA is in the process to collect its archives and MSA (Mineralogical Society of America) has accepted to store them in Washington. Following decision taken by the Council Meetings in Edinburgh and Nice, letters have been written on 14.5.03 by the President of IMA to former IMA Secretary, T. Weiszburg and S. Hafner, leaving in Budapest and Marburg, respectively to recover IMA archives. It was said that the IMA Council had agreed with MSA that the latter would be the best repository for the historical records of IMA. It is requested to know what papers they had and make arrangements to send them to MSA, for which IMA would pay.

In his answer on 27.5.03, Stefan Hafner reported the list of past secretary since 1978 and the point of the existence of records. Since 1982, copies of Minutes of Council Meeting, Business Meetings, reports of Commissions and Working Groups were produced up to 1998 and sent to National Societies. The latter should equally have documents dealing with the scientific part of the General Meetings as they organised them.

In the period 1982-1994, it is mentioned that the Treasurer of IMA has regularly sent to the Councillors financial reports.

One solution to get back the IMA archives is to directly search and collect the different minutes and correspondence contacting the past secretary. The new IMA Secretary could do this. In addition, complementary information may be obtained by asking National Societies and if necessary the past Presidents.

### 7.10 Other topics

Minutes of the three Council Meetings held in Edinburgh were approved.

Mineralogical societies who are late in paying their dues should be directly contacted, as for Portugal.

S. Hafner and T. Weiszburg should be contacted to get the records of IMA and send them to MSA.

The Secretary will get some funding from IMA to support a person to help her with IMA Secretariat work.

## 8. CHIEF PROBLEMS ENCOUNTERED IN 2003 (if any)

No major problems were encountered in 2003.

## 9. CHIEF PRODUCTS (eg. publications, maps) IN 2003

No publication or map resulted from IMA activities in 2003.

## 10. SUMMARY OF EXPENDITURES IN 2003

Income		Expenditures		Year and balance
1999				
Dues received	6,609.01	Com. on NMMN	1,514.39	
Toronto IMA				

Return of advance Toronto IMA Surplus to IMA Interest	12,000.00 16,452.00 556.23	Wire transfer charges	78.00	69,995.67
2000 Dues received Interest	7,208.00 1,999.34	Com. on NMMN Australian Museum Conference IMA dinner, Rio Wire transfer charges	1,515.00 3,015.19 237.71 90.00	74,345.11
2001 Dues received Interest	9,571.00 1,777.09	Com. on NMMN Wire transfer charges	1,514.90 149.00	84,029.30
2002 (until Aug.21) Dues received Transfer from Database Working Group (Dorian Smith) Interest	6,528.00 4,546.56 830.64	To Com. on NMMN To Min.Soc.Britain for IMA 2002 Postage reimbursement for J. Mandarino Wire transfer charges	1,500.00 5,000.00 31.44 230.00	90,007.36
2003				

The expected total (maximal) annual dues (7,920.00\$) are never achieved because many countries continue to allow electronic bank transfer charges to be subtracted from the annual dues.

The final balance for the year 2002 is now known and reported in the above Table. In 2002, the main expenditure was due to the preparation of the General Meeting in Edinburgh. Besides this, the Commission on New Mineral and Mineral Names received funding for the last time, because all the exchanges between the commission members have been done by electronic mail since 2003, and this have suppressed postage expenditures.

In 2003, all the expected dues have not yet been obtained, except for Portugal, who has now paid his dues after five years. Two other countries, Israel and Egypt, are now many years in arrears, and the question of their memberships should be asked during the next Council Meeting in Florence, 2004 if they don't pay before the Congress. The secretarial office will contact these two mineralogical societies in the beginning of 2004 to convince them to pay their dues.

In addition, 9 societies have not yet paid their dues in 2003: Brazil, Croatia, Hungary, Romania, Russia, Slovakia, South Africa, Spain, and Yugoslavia. The first 2003 dues notices were shipped in February 2003 with a payment deadline in May 2003. The second dues notice with enclosure about the original notice went out September 22, 2003. The IMA policy is to send to National Representative a letter asking them to forward the annual dues bill to the National agency responsible for its payment.

## 11. WORK PLAN FOR NEXT YEAR

The Commission on Applied Mineralogy is co-sponsoring with ICAM the International Congress on Applied Mineralogy and is now involved in the reception of abstracts and the preparation of the scientific sessions. All the Commission and Working groups, except CAM, which is co-sponsoring ICAM2004, are involved in the 17 sponsored sessions and 13 co-sponsored sessions during the 32nd IGC, Florence 2004. Consequently most of their activities will be focused on the preparation of the scientific sessions. Preparation of Workshops, datafiles on minerals, books are other activities being prepared by Commissions and Working Groups. Websites will be updated or created.

The president of IMA IAN Parsons will pursue involvement of IMA in the International Goldschmidt Conference in Moscow, Idaho.

Besides this, IMA has to prepare the Business Meetings and numerous exchanges will occur during the first months of 2004 to organize them (see the provisional agenda for the Business Meeting).

Concerning the Secretarial Office, the Website homepage of IMA will be revisited and a new graphic chart proposed. In 2004, the work plan is the following:

In January: \*Transfer of the IMA 2003 IUGS report to IUGS

\*Circular to Officers asking them for their need of rooms for business meeting of commissions and Working groups. Communication of the IUGS report

\*Letter to each National Representative on:

- The logo competition to be put on local Website and in National Bulletin
- The creation of a double link
- The list of National Representative and Delegates in Commissions and Working groups to check the name.
- The use of the term "Commission".
- The communication of the IUGS report and annual reports from Commissions and Working Groups

\*Letter to some National Representatives to collect dues in arrears.

January/February: Modification of the IMA Website by C. Lecluse.

February: \*Room registration for Business Meetings in Florence

\*Preparation of a chronicle to Newsletters

February and March: \*Exchange with National Representatives and Permanents of National Mineralogical Societies to establish the Double Link and to update the list of Delegates in Com./WG following the January circular.

\*Preparation of the final agenda for Florence up to March 2004 with Councillors. [See the proposal of the agenda for additional information related to the Florence meeting (20-28 August)]

April: \*Circular to National Representatives on the Agenda of the Business Meeting

\* Communication on IUGS and the Planet Earth

April to July: \*Verification of the list of National Delegates belonging to Commissions and Working groups

May: \*Nomination of Officers by the Council

\*Visit of the Secretary to Hungary

July: \*Establishment of the list of Delegates for the Business Meetings

\*Preparation of the different Reports for Council and Business Meetings.

August: \*Last preparation of the different meetings.

20-28 August: \*Attendance of the Florence Meeting

September: \*Redaction of the minutes of the Business and Council Meetings.

\*Redaction of a chronicle for Newsletters

October: \*Modification of the Website

\*Request of the Annual report to Officers

November: \*Preparation of the IUGS 2004 annual report

December: \*Ending and transfer to IUGS of the IMA 2004 IUGS annual report.

\*Communication to National Representatives of the IUGS report and other annual reports from the Commissions and Working groups

Circulars sent to National Representatives and Officers will be also communicated to Councillors.

## **12. CRITICAL MILESTONES TO BE ACHIEVED NEXT YEAR**

\* Agenda for the Council Meetings and Business Meetings related to the 32nd International Geological Congress in Florence, 20-28 August 2004.

\* Nomination of Officers of new Working Groups on Astromineralogy and Environmental Mineralogy.

\* Minutes of the Business Meetings

\* Minutes of the Council Meetings

\* Last report on the preparation of the Kobe 19th General Meeting

\* Knowledge on the location of the 20th General Meeting of IMA, either in Paris or Budapest.

\* 2 to 3 Chronicles to be published in Newsletters

\* A New Logo for IMA

\* New name and graphic chart for the IMA Website

\* Production of a new list of National Representatives

\* Up-date list of Officers

\* List of National Societies involved in the double link process

\* Collection of some IMA Archives.

### **13. ANTICIPATED RESULTS: PRODUCTS NEXT YEAR**

The scientific activity of IMA through its Commissions and Working Groups will be clearly visible during the 32nd International Geological Congress in Florence as nearly all of them are involved in the preparation of scientific sessions. This will lead in few cases to the publication of special volumes. Besides this, Workshops will occur, being organised by some IMA Commissions and Working groups (see Table 4 in Annex 2 with the publication of books).

The recognition of New Minerals will continue due to the activity of the Commission on New Minerals and Mineral Names. Other Commissions, those on Mineral Classification, Gem Materials, Ore Mineralogy and Organic Minerals will also collect data on several mineral groups.

New developments in Mineralogical branches are expected from the Commissions on Applied Mineralogy, Mineral Growth and Interface Processes, Physics of Minerals, as well as from the two new Working Groups on Astromineralogy and Environmental Mineralogy. The latter has a crucial role in developing activities having a significant impact on societal issues.

Communication will be enhanced within IMA and with respect to the other Earth Sciences (see below chap. 14). Within IMA, a new Website will be built and communication between National Society and IMA Secretariat will be reinforced by a double channel, that of the National Representative and that of a permanent from the National Mineralogical Society.

The participation of IMA to the new International Magazine of Mineralogy, Geochemistry and Petrology is expected. This could create stronger links between members of these Earth Science communities. Similarly, the scientific and financial involvement of IMA within the Goldschmidt Conference in 2005 is expected.

In addition IMA will get a logo to be easily identified within Congress, in all advertisement and postal exchanges. An up-to-date Website and regular information through Newsletters will be achieved.

Collection of IMA archives will progress this year by visiting the past secretary.

### **14. COMMUNICATION PLANS**

Communication is one of the two major objectives of IMA, the second one being the development of scientific purposes by the participation of IMA to International meetings. The latter contributes also to the development of the communication policy of IMA. Strong efforts will be done to improve communication within IMA and between IMA and the other fields of Geosciences during the next two years, up to the next General Meeting in Kobe.

Communication within IMA is of prime importance and regular information are now provided through electronic mailing, Websites and Newsletters, a bulletin related to the Mineralogical Society of Canada, due to facilities provided by P. Tremblay. Communication between IMA members and all the community of mineralogists will be revisited through the Website. The new Committee on Computer and Technical Applications is presently working at this project.

In the future, it is planned to develop communication with IUGS and other ICSU Scientific Union Members and National Scientific Members, as this is vital for our activities.

#### **14.1 IMA Websites**

During the last years, communication is increasing through Internet and IMA needs to improve its website. In 2003, the IMA Website changed thanks to the Webmaster Bertrand Devouard (e-mail: devouard@opgc.univ-bpclermont.fr) from the New Committee on Internet and Computer Applications and to Pierrette Tremblay from the Mineralogical Society of Canada who helped us by providing several days for maintenance (see chap. 7.2).

However, significant changes have again to be brought to get an efficient and profitable Website for mineralogists as the site is still poorly referenced on the Internet. Modification must involve the creation of a new graphic chart with a new organisation of the Website. A current name for the address of the IMA Website has to be found which clearly will reference to IMA. The expression "IMA-Mineralogy" is proposed as the unique term "IMA" is already used. The reorganisation of the Website is planned to spend one full month. An Earth scientist who has already realised three Websites will do this. Later on, the IMA Website will be updated every week. Three years experience at the IMA secretariat shows that information arrive regularly every week either from Councillors, Officers or National Representatives or

from International Organisation (IUGS and affiliated bodies). Besides this, relationship with other Websites dealing with Geosciences has to be developed.

- ✓ A plan to develop the future Website is reported in Annex 1 (Table 4). In the new Website,
  - ✓ There will be a "site map" to know directly the contents of the site. It will be more detailed than the plan of the website which is joined with this e-mail. The item "About IMA" will be rewritten and its mission defined from the Constitution.
  - ✓ The Council Minutes will contain the minutes summarised.
  - ✓ "Newsletters and IUGS reports" will refer to the articles published in Newsletters which will be open from a list reported in a table, and to the annual IUGS report.
  - ✓ "Contact us" will give the postal and electronic addresses of the Council members and Officers for a direct link, but this site will be protected to avoid spamming.
  - ✓ "Mineralogy related conferences" would select some conferences of more particular interest for mineralogists.
  - ✓ Links have to be done with other websites, which are interesting for mineralogists, such as those on rock and mineral collection, teaching, etc .

Websites of Commissions and Working Groups have improved this year, and other are in the process to be created. The website from the commission on New Mineral and Mineral Name is well efficient and permit direct links between the member of the commission as well as regular voting in connection with the activity of this commission. Information related to minerals selected or disregarded are easily accessible on this site. Some other commissions share a Website with other associations as the commission on Applied Mineralogy, or are in the process to do it (Com. on Gem Materials, WG on Mineral Inclusions).

#### **14.2 Creation of a new magazine**

Since 2001, information from the President or the Secretary was regularly reported in Newsletters.

The project to create a new Magazine in Mineralogy, Geochemistry and Petrology was initiated by Rod Ewing (MSA). This project was presented at the Council Meeting in Nice, in April 2003. Later on, the President and the Secretary of IMA participated to a meeting organised by Rod Ewing in the University of Nice. During this meeting, the creation of the new magazine was discussed as well as its content and the way societies could participate. The new magazine is planned to be launched in 2005.

The magazine aims at uniting the mineralogical and geochemical sciences by providing a medium for interacting with the broader Geoscience, material science and chemistry community. It should combine the contents of newsletters and also scientific review papers, which will be gathered in thematic issues of broad and current interest. Guest Editors will be invited to organise thematic issues.

Other items in the magazine may include: Short summary articles (such as in the "Perspectives" section of *Science* magazine), Summary highlights or conference reports of meetings of participating societies, Policy news (balanced by geographic region), Presidential columns (rotating among participating societies), Book reviews, Media watch - television programs and documentaries in the earth sciences, Member profiles or interviews, as in the *Bulletin of the American Ceramic Society*, Society news and announcements, Short course announcements and registration materials, Student activities and awards, Announcements and profiles of award and medal honourees, Articles on the history of mineralogy and geochemistry, Calendar of meetings and events, Advertisements, Announcements from funding agencies, Advertisements for jobs.

The Geochemical Society, the Mineralogical Society of America (MSA) , the Mineralogical Society from Great Britain and Ireland (MinSoc), the Mineralogical Association of Canada and the Geochemical Society have agreed to support the Magazine.

A final business plan will be prepared and sent to participating societies. Each participating society will appoint a person to an Executive Committee, which will be responsible for making the financial and organisational decisions concerning the magazine, including naming three principal scientific editors (Mineralogy, Petrology and Geochemistry). Each participating society will propose two candidates for the Editorial Board. The Executive Committee and the principal editors will pay a special attention to having good balance among the disciplines and participating societies. The members of the editorial board

will assist the principal editors in identifying guest editors for the thematic issues and insure that the news and content of the Magazine reflects the activities and program of their societies.

The final financial plan will depend on the number of participating societies and the final print run. Other societies are invited to join into this effort. Participating societies will be able to offer this magazine to their members as a benefit of membership for a small fee per member. Any interested society should contact Rod Ewing at <mailto:rodewing@umich.edu> rodewing@umich.edu or Pierrette Tremblay at pierrette\_tremblay@inrs-ete.quebec.ca.

The International aspect of this magazine to report news, as well as significant scientific papers, is of great interest for IMA. In addition, the fact that this magazine could create a link with Geochemists agrees quite well with the IMA policy, which favours participation of IMA to International Meetings where Mineralogists and Geochemists are involved.

### 14.3 Chronicle and reports

In 2004, IMA will report information related to its activities within Newsletters as usual. Later on, information might be published in the New Magazine.

In 2003, three Chronicles have been published in Newsletters, reporting information on the main changes occurring after the General Meeting in Edinburgh, 2002, the preparation of the next Business Meeting in Florence, and the Competition for the IMA Logo.

A message from the President Ian parsons was published in the Mineralogical Society Bulletin (dec. 2002). The past-President Tony Naldrett published his last message as president in the Edinburgh volume of Abstracts (September 2002).

## 15. SUMMARY BUDGET FOR NEXT YEARS

The income will comprise dues in the range obtained during the last years about 7 000 U.S. Dollars. Expenditures for CNMN are now suppressed because communication between members is through electronic mails.

Since 1998, there have been no charges to the account for any administrative, secretarial, or postal expenditure incurred by the offices of the President, Secretary, or Treasurer. All these costs have been absorbed by the officer's local institutions, and/or by personal finances of the officers. However for 2004, a special amount will be provided to build a new Website during one month job (see point 18). The employment of one scientist will permit the creation of a new design for the IMA Website, the internal organisation of which will change accordingly. The transfer of 2522 US\$ is in the process to be done<sup>1</sup>.

In addition, there is the project to have a part-time secretarial position on a basis of 8 hours per month, which will help to have an update IMA Website every week. It will cost for the first year 2178 US\$ per year.

An amount of 1000 US. Dollars is planned to help for the recovering of IMA archives, and 200 \$ for the price for the logo competition.

Income US\$		Expenditures		Year and balance
2004				
Dues expected	7520,00	Webmaster	2522,00	Year : 2320,00
Interest	500,00	Part-time secretarial position	4357,00	
		Archives	1000,00	
		Logo competition	200	

## 16. POTENTIAL FUNDINGS

Funding of IMA is an item to be considered during the next Council Meeting in Florence.

It is planned to develop scientific projects during the next years to be financially helped by ICSU.

<sup>1</sup> A Cheque of 2000 Euros arrived on the 4th of January from the Bank of America

## **SECOND PART**

### **LAST AND NEXT 5 YEARS**

#### **17. REVIEW CHIEF ACCOMPLISHMENTS/RESULTS OVER THE LAST 5 YEARS (period 1999-2003).**

##### **17.1 On the level of the Council**

In 2002, a new Council was elected during the General Meeting in Edinburgh. It comprises Ian Parsons, President, Takamitsu Yamanaka, First Vice-President, Nicolai Yushkin, Second Vice-President, Cornelis Klein, Treasurer, Maryse Ohnenstetter, Secretary, Alain Baronnet, Ian Campbell, Kari Kojonen, Marcello Mellini, Werner Schreyer, Councilors.

Before that, important changes have occurred within the Council because two councilors have died, Andrei Szymanski in November 2000 and Shigeo Sueno (2nd Vice-President) in February 2001. In addition, Tamas Weiszburg, was been in poor health for some time, resigned as a secretary.

Therefore, council appointed Maryse Ohnenstetter, of CNRS, Nancy, France as interim secretary until the 2002 business meeting, at which time she was candidate for the position. Professor Sueno had been in charge of arranging the 2006 annual meeting. Professor Yamanaka, President of the Mineralogical Society of Japan, has taken over responsibility for this meeting. Accordingly, council co-opted him as interim 2<sup>nd</sup> Vice-President until the Edinburgh business meeting.

The first aim of the new secretary was to contact Society Members and/or National Representatives to check up list of people from each country involved in IMA organisation. 38 Mineralogical Societies or Mineralogical groups belonging to a Geological Society adhere to IMA. It was asked to National Representatives to confirm Delegates or to find new Delegates for the different Commissions and Working Groups. Up-to-date information on National Representatives and Delegates to Commissions and Working Groups are now regularly reported on the Website.

On the 15th of November 2001, IMA deadlines were sending to National Representatives and Officers to prepare the General Meeting in Edinburgh. The IMA deadlines bore on suggestion of candidates, proposals to prepare the Business meetings, proposals on amendments of the Constitution, program of the Business meeting and elections.

Minutes of the two Council meetings and of the extraordinary meeting were accepted in Nice.

##### **17.2 On the level of Commissions and Working Groups.**

*Activities of Commissions and Working Groups are summarized within 5 tables given in Annex 2.*

IMA has sponsored, co-sponsored sessions through Commissions (Com.) and Working Groups (WG.) in 8 International Congress comprising the two IMA General Meetings in Toronto (1998) and Edinburgh (2002), the SGA/IAGOD International Congress on Mineral deposits (1999), the International Geological Congress in Rio (2000), the 4th International Mineralogy and Museums Meeting (2000), the European Crystallography meeting (2000), the Applied Mineralogy symposia (2000), and the first EGS-AGU-EUG Joint Assembly in Nice, April 2003. IMA has also participated to the ECROFI symposia, EMU schools and to International Gemmological Conferences (Annex 2 - Table 1). Several Com./WG. were involved in the preparation of the Edinburgh General meeting, and all of them except one, are now preparing sessions related to the 32nd IGC, Florence, August 2004 (Annex 1, Table 3).

The Commission on Applied Mineralogy is organizing with the International Council for Applied Mineralogy (ICAM) the 8th International congress on Applied Mineralogy (ICAM 2004) which will occur in Brazil (see below). Similarly, the Commission on Museums will sponsor the 5<sup>th</sup> International Conference on Mineralogy & Museums, September 5-8, 2004, Paris.

Three Com./WG., the Com. on Applied Mineralogy, the Com. on ore Mineralogy and the WG. on Mineral Inclusions regularly organised short courses and workshops (Annex 2 - Table 4). Summary of activities of each Commission or Working Group are reported below:



*17.2.1 The IMA Commission on Applied Mineralogy (CAM)*

1) CAM has a strong partnership with ICAM, the International Council for Applied Mineralogy. CAM and ICAM have previously agreed that the two groups will collaborate with regard to the sponsoring of sessions on applied mineralogy at the quadrennial meetings of IMA and ICAM.

CAM and ICAM regularly organised Short Courses at the University of Sao-Paulo.

2) In 2003, CAM was involved in Co-organisation of the 8th International Congress on Applied Mineralogy, together with the International Council for Applied Mineralogy (ICAM), to be held in Aguas de Lindoia, Brazil, from 19 to 22 September of 2004 ([www.applied.mineralogy.org](http://www.applied.mineralogy.org)).

3) CAM is involved in the sponsoring of the 5th short course on "Applied Mineralogy of Mineral Raw Materials" held at University of Sao Paulo, Brazil, and organised by Henrique Kahn [12 participants].

4) CAM is building of a mailing list of scientists and researchers somehow dealing in the field of applied mineralogy (ICAM 2004 mailing list).

5) The CAM web site is shared with ICAM. It is under development.

*17.2.2- The IMA Commission on Classification of Minerals (CCM)*

1). In 2003, Members of CCM participated in the conference "XRD studies of minerals" which was organised in S-Peterburg (Russia) in September.

2) CCM has published several books during the last years. In 2003, two additional fundamental books were published (see Annex 2, Table 4).

3) The main subdivisions for the classification of China gemstones was prepared Mineral group classification are displayed on the Website as well as discussion related to these topics.

4) The Website was updated in 2003, as well as the list of CCM members is updated.

*17.2.3 The IMA Commission on Mineral Growth and Interface processes (CMGIP)*

New Officers were elected in Edinburgh.

*17.2.4 The IMA Commission on Gem Materials (CGM)*

1) Peter Zwaan died since his nomination as a vice-chairman of the CGM.

2) A draft of a "GLOSSARY of GEM MATERIALS" has been sent to some Members of the Commission. Modifications will be done after receiving their comments. Later on the revised draft will circulate among all the members of the CGM. Additional comments from members of other Commissions (New Minerals and Mineral Names, for instance) will be also searched for.

3) Two books are nearly finished: One on Raman Spectra DataBase, and a second one on minerals, comprising GEM minerals.

*17.2.5 The IMA Commission on Museums (CM)*

1) An annually Ad Hoc – Meeting of the IMA – Commission on museums (CM) was held on October 25<sup>th</sup>, 2002 in Munich, after the Edinburgh General Meeting. 17 curators from 8 countries attended the meeting. Minutes were sent to the IMA secretariat. A second business meeting occurred again in Munich, in October 31<sup>st</sup> 2003.

2) A new Website (homepage) of the CM was installed by Dr. Antony R. Kampf from Los Angeles ([www.smmp.net/IMA-CM/](http://www.smmp.net/IMA-CM/)) containing e.g. a complete membership list and the CTMS-Catalogue (a complete list of type mineral specimen and their depositories).

Similarly a Website was developed for the announcement of the 5th International conference on Mineralogy and Museums, September 5-8, 2004 [<http://www.ensmp.fr/MM5>]. The second circular is distributed.

*17.2.6 The IMA Commission on New Minerals and Mineral Names (CNMMN)*

1) CNMMN plays an essential role within IMA. In 2003, the CNMMN has received 62 new mineral proposals until the end of November. This is approximately the same rate as over the past 2 years. There is a very high approval rate, with only one proposal rejected and two suspended. A number of older proposals have been resubmitted following revisions.

2) The CNMMN has also received three proposals that involve changes to mineralogical nomenclature. One of these, a proposal to abandon Schaller modifiers, has been approved, while proposals involving polytypism in wagnerite-triplite-zwieselite and a discreditation of spodiosite are under discussion.

- 3) The CNMMN also established two subcommittees to discuss and report on nomenclature of the tourmaline and epidote groups. These are under the chairmanships of Dr Milan Novak and Dr Thomas Armbruster, respectively. Reports are anticipated early in 2003. Additions and revisions to amphibole nomenclature were approved following proposals put forward by the amphibole subcommittee. The report of the eudialyte subcommittee was published in *Canadian Mineralogist* this year.
- 4) The establishment of an active CNMMN website by the incoming Chairman, Dr Ernst Burke, has been a major advance. The website provides general information on the history, working procedures and membership of the Commission. It also enables members to log on to view monthly updates of activities. All members are now using the website to download proposals.
- 5) Amongst other achievements this year, 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.

#### *17.2.7 The IMA Commission on Ore Mineralogy (COM)*

- 1) COM participated or sponsored sessions within International congress - In 2003, the session 'Gold and Platinum Group Minerals: from experimental mineralogy and microanalysis to deposit Modelling' was held in the first EGS-AGU-EUG Joint Assembly in Nice. Convenors were Kari Kojonen (Finland), Roland W. Merkle (South Africa) and Nigel J. Cook (Norway). Approximately 50 persons attended the session, which consisted of 12 oral presentations and 15 poster presentations.
- 2) COM organised regularly Short Courses associated with excursions and publications of related books.
- 3) Classification of minerals - A report on the sulphosalt sub-commission is presently updated.
- 4) Database - Virtual ore mineralogy - COM is committed to providing, on its website, a series of representative images of ore minerals. 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. Work will continue on this project, also in conjunction with preparation of written material to accompany the short course in Granada.  
A list of standardised abbreviations of ore minerals has been prepared. First contact has also been made with CNMMN on this issue.
- 5) Relationships with other organisms - 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.
- 6) COM Website - COM has created a new website hosted at the Geological Survey of Finland; <http://www.gsf.fi/domestic/com/ima-com.htm> The COM website provides a central source of information on COM activities, with a mission statement, a brief history of the commission, an updated list of National Representatives, details of past and future activities and publication reports. COM will, in future, include reports from sub-commissions and a section devoted to virtual ore microscopy, with links to other ore mineralogy/microscopy libraries available online.

#### *17.2.8 The IMA Commission on the Physics of Minerals (CPM)*

Officers of this commission are totally new. Since Edinburgh, CPM proposed 3 sessions for Nice Joint Assembly, 2003 and 4 sessions for the Goldschmidt Conference in Kuashiki, 2003.

#### *17.2.9 The IMA Working Group on Inclusions in Minerals (WGIM)*

- 1) In Edinburgh, two officers of the WGIM were newly designed. In 2003, the commission members designed Prof. M. Enjoji, Japan to become vice-chairman.
- 2) WGIM is still participating to International Meetings or Conferences devoted to researches on Inclusions, to seminars and workshops.
- 3) An Asian Current Research group on Fluid Inclusions is in the process to be created (ACROFI). This organisation will occur in China. Authorizations are now submitted to Chinese authority for approval.
- 4) A report on the history of WGIM has been prepared.
- 5) The Website officially maintained by Dr. Brown was updated as well as information reported on the IMA Website

*17.2.10 The IMA Working Group on Mineral Equilibria (WGME)*

In 2003, WGM has organised a Special Meeting dedicated to the Prof. Leonid L. Perchuk's 70<sup>th</sup> anniversary at the Institute of Experimental Mineralogy, Chernogolovka, Russia.

*17.2.11 The IMA Working Group on Organic Minerals (WGOM)*

1) The WGOM organize session in International Meetings. The WGOM organised a session in Edinburgh in 2002 and a seminar in Gdansk in 2003.

2) WGOM has produced a history of the group and redefined its mission, realizing that a lot of substances are not well defined and planning to establish a list of "Valid and rejected names of organic minerals".

3) WGOM published a circular to the WG. members since 2001. This newsletter becomes an effective tool to exchange information within the Working Group.

4) Members of the group are active in organizing popular exhibitions in Museums, teaching and special lectures as on "ambers" in different places (Museums, School).

The list of members of WGOM was updated in 2003.

*17.2.12 The Working Group on Astromineralogy (WGA)*

In September 2002, after the Edinburgh General Meeting, which voted to the end of the Working Group on Cosmic Mineralogy, C. Klein contacted Franz Rietmeijer to become a Chair of a new Working Group on Astromineralogy. The proposal was to redirect this initiative in a manner to be more responsive to the changes taking place in Space Science with regard to the role of Mineralogy.

In 2003, F. Rietmeijer took contact with several colleagues to form a coherent committee active in developing scientific activities. The Council in Nice encouraged F. Rietmeijer to go ahead.

*17.2.13 The Committee on Internet and Computer Development (CICD)*

The IMA Working Group on Databases and computer applications (WGDB) was disbanded at the 18th IMA General Meeting in Edinburgh, September 2002. As stated in a letter that was given to the IMA council at the end of the second business meeting in Edinburgh, former members of the IMA Working Group on Databases and computer applications strongly felt that the IMA should maintain some kind of structure concerned with computer and internet applications.

The creation of a Committee for Internet and Computer Applications (CICA) within the IMA was proposed to, and accepted by the IMA council in Nice, 2003.

A new version of the IMA web-site has been developed in 2003. It is currently accessible at: <http://www.obs.univ-bpclermont.fr/imal>

Current members of the IMA Committee for Internet and Computer Applications are B. Devouard, T. Kerestedjian, T. law, R. Merkle, K. Murphy.

**18. SUMMARIZE ANTICIPATED OBJECTIVES AND WORK PLAN FOR THE NEXT 5 YEARS (2003-2007)**

**18.1 On the level of the Council**

The past President Tony Naldrett delivered a message about IMA to increase its scientific activity (published in the Edinburgh volume with abstract). Later on the new President Ian Parsons summarized his role in a report published in Mineralogical Society Bulletin (dec. 2002) and defined some guidelines for IMA to follow in the future. The anticipated objectives are summarized below:

*18.1.1 The promotion of intercourse among mineralogists*

This promotion will be done by organizing large meetings (see Annex 2 - Table 1) 2004: M&M 5, Paris, France; preparation of the 19th GM: 2006, Japan), by participating in the organisation of large meeting organised by other bodies (e.g.: 2003: EGS-AGU-EUG Joint Assembly, Nice; 2004: IGC 32, Florence; 2004: Goldschmidt Conference, Kurashiki) and by organizing international workshops, smaller symposia on the level of the IMA commissions (see Annex - Table 2). It is more especially recommended that IMA participates to international meetings such as the Goldschmidt geochemistry conferences and the Experimental Mineralogy and Petrology Group meetings.

IMA will prepare its next general meeting in Kobe, expecting to get its own meeting as popular among Earth scientists as the Goldschmidt meetings. The possibility of collaborating with other organisations in 2005 is being pursued.

#### *18.1.2. Maintenance of the IMA Commissions and Working Groups*

The maintenance of the IMA Commissions and Working Groups in a structure was defined by the IMA General Assembly in 2002 for the period of 2002-2006. The IMA Council has examined projects proposed by the New Committee on Computers and Technical Application, and by two new WG. on Astromineralogy, and Environmental Mineralogy in Nice, 2003. The activity of Com. and WG. will be considered again during the Business meeting in Florence.

#### *18.1.3 Updated list of National Representatives and Delegates*

The list of National Delegates has been reviewed in 2003, and lists of members of Commissions and Working Groups re-established. These lists will be checked again in 2004 to prepare the Florence Business Meeting. Presently, there are some significant discrepancies between lists formed from National Representative data and those compiled from Officers of Com./WG.. Establishment of list of members of Com./WG. needs discussion between National Representatives and Chairs of Com./WG..

#### *18.1.4 Communication between IMA participants*

There was a general recommendation during the General meeting in Edinburgh to increase internal communication, and relationship with other international bodies. According to the new President's message, IMA has to be more active in promoting exchanges and information between the Mineralogical Societies of the world (whose subscriptions support it) and it needs to be more visible in the intervals.

It was suggested that information between IMA and the Mineralogical Society may circulate through a double link, that of the National Representative and that of a permanent belonging to the Society. But this requires a change in the constitution. It was underlined that large society may apply their permanent secretary to be the best representative to IMA. However, some countries have no Mineralogical Society but instead have a group of mineralogists, which forms a part of a Geological Society or a Council as in Japan. In this case, a representing who may not be a permanent from the Society has to be the link between IMA and the Geological Society or Council.

In addition, a competition is planned (US\$ 200 prize) for the design of an IMA logo (visit the Website at <http://wwwobs.univ-bpclermont.fr/ima>).

### **18.2. On the level of the Commissions/Working Groups**

Projects of Com./WG. are summarized in the different tables reported in Annex 2. There is a significant increase in the involvement of IMA commissions and Working groups in International meetings, as illustrated by the next IGC in Florence (see Annex 1 - Table 3). In the future, this situation will favor a more regular occurrence of Business Meeting of Commissions and Working Groups between the General Meeting of IMA. There were few Business Meetings in the period 1999-2002 (Annex 2 - Table 3). The scientific implication of Commissions and Working Groups will help some of them to better define their objectives and. A better delimitation has to be drawn between CNMMN and CCM, CAM and ICAM and between WGIM and ECROFI. In addition, during the next years, atlas, glossary on minerals, and books with mineralogical tables will be published; this may be used by the International community, notably editors and will complement publication related to the organisation of scientific sessions and Workshops.

Commissions and Working Groups are also engaged in the development of communication within their members and between the Com/WG and the international community. Creation of Website and improvement of existing website will be pursued in the future, and the use of electronic mail will favor regular delivering of internal circulars within Commissions and Working Groups.

Detailed activities relevant to organisation of meetings or sessions are detailed within minutes and work plans of each Com/WG, which are sent to National Representatives and to the Council. Plan activities are summarized below.

#### *18.2.1 The Commission on Applied Mineralogy (CAM)*

During the General Meeting of IMA, CAM was strongly encouraged to develop his own scientific activities and communication between mineralogists involved in Applied Mineralogy (for general comments on this topics, see the previous 2002 IUGS report). In 2004, the following activities are planned:

- 1) Co-sponsoring with ICAM of the 8th International Congress on Applied Mineralogy, to be held in Aguas de Lindoia, Brazil, from 19 to 22 September of 2004. This congress is organised by the

International Council for Applied Mineralogy – ICAM. At least three short courses will be also co-sponsored by CAM.

2) The web site of CAM shared with ICAM has to be improved, [<http://www.appliedmineralogy.org/>]. It is planned to develop the CAM-IMA history, aim, objective, mission, report, short courses, scientific activity, way of functioning, etc.

3) A mailing list has to be created to improve the communication lines between the individuals and organisations somehow dealing with applied mineralogy - <http://www.appliedmineralogy.org/>. Again this list will be prepared with ICAM.

4) A 6th short course on "Applied Mineralogy of Mineral Raw Materials" has to be held at University of Sao Paulo, Brazil. It will be organised by Henrique Kahn together with ICAM support

5) CAM will sponsor A 6th short course on "Applied Mineralogy of Mineral Raw Materials". The short course will be held at the University of Sao Paulo, Brazil. It will be organised by Henrique Kahn in collaboration with Prof. Polmann from Halle University, German.

6) CAM will sponsor A third short course entitled "Digital Image Analysis for Geologist". It will be held during the 32nd IGC short course, in Florence, Italy, and organised by Eric Pirard. No further activities of CAM are planned for the 32 IGC.

7) Development of search and contacts to plan new short courses to be sponsored by CAM.

8) Review of the CAM National Delegate List. This implies to contact the active Delegates and to try to replace those ones who are retired or really not properly interested on helping CAM to improve their activities worldwide.

It is notably expected to produce a new National Delegate List for CAM, a mailing list of individuals and organisations somehow dealing with applied mineralogy, and to improve the CAM web site. In addition, the Proceedings of the 8th International Congress on Applied Mineralogy will be prepared.

Communication will be developed through formation of the Mailing list of individuals and organisations involved in applied mineralogy, by the organisation of the 8th International Congress on Applied Mineralogy and by the development of the CAM web site [<http://www.appliedmineralogy.org/private/cam.htm>].

No IUGS support is requested. Some funding will be provided for the 8th International Congress on Applied Mineralogy through Brazilian funding agencies, mining companies analytical equipment's companies and registration fees (to be prospected for helping on ICAM 2004 and a short course on "Applied Mineralogy of Mineral Raw Materials"). In addition, the Mining and Petroleum Engineering Department of the Polytechnic School of the University of Sao Paulo will financially support the Web site and mailing list.

#### *18.2.2 The Commission on Classification of Minerals (CCM)*

Some immediate aims of the activity should be the following:

- 1) The CCM emphasized the necessity of getting the membership list in order.
- 2) In cooperation with CNMMN, it is planned to provide expertise in the reconsideration of mineralogical groups and their nomenclature, based on the general principles elaborated by CCM and CNMMN in 2001.
- 3) CCM will be busy in 2004 to prepare a session for the 32nd IGC in Florence. The convenors, D.Pushcharovsky and E.Tillmanns, are preparing a program for the symposium sponsored by CCM during the IGC-32 in Florence, 2004 entitled "Crystal structures of minerals: topology and classification".

#### *18.2.3 The Commission on Mineral Growth and Interface Processes (CMGIP)*

1) The commission or commission members must organise and/or sponsor symposia, meetings, and sessions on international conferences.

2) National Representatives and/or National Organisations have been contacted in order to renew or extend the list of members. The number of countries represented in the CMGIP is too low. It must be emphasized that the members must be the contact persons between the commission and their national community.

3) Since mineral growth is only a small part of the much wider field of crystal growth the interaction with crystal growers interested in material sciences must be intensified. Material scientists are working on compounds, which are chemically and structurally identical to minerals. Papers published by geoscientist in materials science journals are not included in geosciences databases.

- 4) Interaction between commission officers and members must be much more intensive than in the last years of the previous Commission on Mineral Growth. The outcome of the CMGIP depends on the cooperation and the activities of all members.
- 5) In order to improve the communication between the Commission and geoscientists working in the field of mineral growth and interface processes extraordinary members in addition to the national members will be appointed.
- 6) In order to improve the communications Internet facilities will be used such as a Yahoo discussion group and web site.

#### *18.2.4 The Commission on Gem Materials (CGM)*

- 1) In 2004, CGM will organise a session during the 32nd IGC in Florence.
- 2) Members of CGM are presently considering how to replace P. Zwaan who died as vice-chairman.
- 3) The commission plans to look at the problem of mineral nomenclature together with CCM.
- 4) Ending of the glossary project is planned. Draft of a glossary of gem materials will be modified after being distributed to some members of the commission.

#### *18.2.5 The Commission on Museums*

1) The main activity is centered on the organisation of the 5<sup>th</sup> International Conference on Mineralogy & Museums, September 5-8, 2004, which will be held in Paris, France. The CM sponsors this meeting. The Chairwoman of CM, Dr. Lydie Touret is Head of the Organizing committee. Information relative to this Conference was provided during the business meeting in Munich and is now reported in the second circular as well as on the website.

IMA was asked to fund the 5th International Conference on Mineralogy and Museums, Paris, 5-8 Sept 2004. The Executive Committee of IMA rejected this because of the lack of detailed financial need provided by the organizers. In addition, no proposal was sent to the Secretariat of IMA to be examined during the Council Meeting in Nice as requested (letter on 17.12.03).

- 2) Besides the organisation of a large Meeting on Museums in Paris, activity of the Commission will be focused on centres on Topographical (Regional) Collections Fixed report dates are requested to the general secretary.
- 3) Databases are developed. Proposals have been made by F. Wall to arrange a Website for petrological collections.

#### *18.2.6 The IMA Commission on New Minerals and Mineral Names (CNMMN)*

- 1) CNMMN is involved in the Florence 26th IGC.
- 2) CNMMN will continue to examine proposals on new minerals as well as changes on mineral nomenclature.
- 3) The CNMMN has greatly expanded its internal communication through Internet to deliver its monthly communication stream (from officers to members, and back) and to report information on new minerals. The Website comprises a section with limited access for CNMMN persons only. This section will provide as PDF files the monthly memoranda of the chairman and the new-mineral proposals prepared by him. The members (who have access through a user name and a password) can read, download and print those files for their own use.

#### *18.2.7 The IMA Commission on Ore Mineralogy (COM)*

1) Sponsoring of session - COM has proposed three scientific sessions for the 32<sup>nd</sup> IGC, Florence, Italy, 20<sup>th</sup>-28<sup>th</sup> August 2004. The sessions are reported in Annex 1 - Table 3.

Kobe - COM are in contact with Japanese COM representatives concerning the participation of the commission at the next IMA General meeting in Kobe, Japan (2006).

2) Special volume - Following the sponsoring of a session on "Gold and Platinum group Minerals" during the First EGS-AGU-EUG Joint Assemblt, selection of papers are presently being prepared for a special issue of *Ore Geology Reviews*.

3) Short course - COM is organising a short course with the Sociedad Española de Mineralogía, which will be held in 2004 (Annex 2 - Table 2). The range of topics covered is yet to be fixed, but will include traditional ore mineralogy, topics of specific local interest and environmental mineralogy. In addition,

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).

4) Workshop - COM are considering operating a one-day workshop in PGE ore mineralogy at the 10<sup>th</sup> International Platinum Symposium to be held in Oulu, Finland, in August 2005.

5) Database - 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.

COM intends to take a more active role in ensuring quality control of reported ore mineralogical data in the future. Proposed sets of guidelines for publishing of microprobe data etc. are in preparation.

#### *18.2.8 The Commission on Physics of Minerals*

The commission plans to be particularly active in International Meetings. After a large involvement in Nice and Kurashiki, the Commission will be involved in four sessions of the Symposium on Mineralogy (Annex 1 - Table 3).

#### *18.2.9 The IMA Working Group on Inclusions in Minerals (WGIM)*

WGIM will organize a session in Florence. A short course is planned to occur in Beijing, China, in October 2004, and other short courses are in the process to be organised later on. A session will also occur during the IAGOD Interim Conference on the Metallogeny of the Pacific Northwest.

#### *18.2.10 The IMA Working Group on Mineral Equilibria (WGME)*

- 1) The WG will participate to the Florence International Congress in organizing two sessions.
- 2) WGME is preparing a special issue of Journal of Petrology following two sessions organised during the Edinburgh Meeting.
- 3) WGME plans to organize a Website.

#### *18.2.11 The IMA Working Group on Organic Mineral (WGOM)*

- 1) WGOM is organizing a session in Florence in collaboration with CPM.
- 2) The annual circular will be improved by adding references, revision of organic mineral names and characteristics, and reports on activities.
- 3) The list of valid and rejected names has to be completed at the end of 2003 for publication. In addition, it is planned to revise the organic minerals, especially fossil resins ("amber") and to edict rules for the nomenclature and description of fossil resins. A bibliography on amber is projected to be done.
- 4) Several cooperations exist to study minerals. Relationships and common projects with museums will increase through common exhibitions.
- 5) A Website homepage is planned to be created in 2004.
- 6) The scientific goal in the future will include some aspects on biomineralization and ecological chemistry.

#### *18.2.12 The IMA Working Group on Astromineralogy*

The WG is intended to bring together interdisciplinary research of extraterrestrial materials that would complement traditional research of collected meteorites and that is responsive to new developments in laboratory simulations and astronomical and meteor observations. A small group of officers has been selected and is now exploring the ways to best effectuate and promote the interdisciplinary nature of the WG.

The WG will make its first official appearance with a session at the 32<sup>nd</sup> IGC (abstract deadline January 10, 2004), followed by "METEOROIDS 2004" London, Ontario, Canada; for information please email [meteoroids2004@uwo.ca](mailto:meteoroids2004@uwo.ca)).

Another way to promote the goals of the WG would be to review papers across interdisciplinary boundaries and to promote interdisciplinary research. Close relationships with Space agencies will be encouraged.

#### *18.2.13 The IMA Working Group on Environmental Mineralogy*

At its second meeting in Edinburgh in September 2002, the Council considered a proposal sent by Prof. Umran Dogan of the university of Ankara, Turkey and Iowa, USA to form a Working group on Environmental Mineralogy and health. The Council was very much in favour of forming such a group.

To make a new group on Environmental Sciences as international as possible, the council selected David Vaughan to chair the new group. D. Vaughan accepted to chair the new Working group on Environmental Mineralogy and send to the Secretariat of IMA on the 2/4/3 a proposal dealing with the creation of the new group.

The proposal to create a new group underlined the emergence of Environmental Mineralogy as a sub-discipline in the recent years, which occupies an interdisciplinary area that has the potential attract interest and support from a wide community. D. Vaughan proposed first to select the initial officers and representatives from the more active mineralogical societies. Part of his proposal is reported below: "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)."

#### *18.2.14 The IMA Committee on Computer and technological Applications (CCTA)*

1) The main responsibility of the new group is to develop and maintain the web site of the IMA. This site aims (as a minimum) to offering active links to the individual web sites of IMA commissions and working groups, as well as links to the web sites of National Societies. Regular updates of the web site, as well as news or links to resources useful to mineralogists (databases...), should be available as well.

The IMA Website must be continued, and enhanced, using an independent IMA domain name with improved opportunities for information exchange. There should be a gateway facility, provided by IMA, for the museum and other mineralogical communities. IMA should also consider establishing standards for mineralogical data exchange.

2) An additional task of the IMA-CICA committee will be to start developing an interchange file format for the various mineralogical databases. Such an ambitious project of setting a worldwide standard could only be conducted within the scope of the IMA.

### **18.3 Participation of IMA to International Congress**

The process to apply for a grant provided by IMA is to submit a clear outline of the purpose of the project, its budget with the source of various funding and the expected expenditures to the IMA secretary. The latter will then forwards the project to the Council.

The policy of IMA is to fund Congress, which may give to IMA a higher profile. This would rather occur at big meeting, which are not too specialised, as the Goldschmidt Meeting. This will make IMA and its commissions, which organise sessions more visible.

#### *18.3.1 Florence 32nd International Geological Congress, 20-28 August 2004*

The second Circular is published. See the Website for additional information : <http://www.32igc.org>. IMA is sponsoring 24 sessions and co-sponsoring 6 sessions. The symposium G15 on Mineralogy is sponsored by IMA more often through its Commissions and Working groups. Within the General Symposia, IMA is also sponsoring or co-sponsoring sessions within Earth Interior (G01), Environmental Geology (G03), Geochemistry (G04) and Mineral Deposits (G14).

The following deadlines will be communicated in due time to National Representatives to prepare the Business meeting in Florence. The dates of Business meeting could still change according to room facilities and the time of sessions sponsored by IMA during the Congress.

2004

28 January	Deadline for submission of abstract and payment of reduced registration fees
31 March	Deadlines for proposals to prepare the Business meetings (to be sending to the secretary).
15 April	Deadline for proposals on Amendments of the Constitution (to be send to the secretary)
30 April	Program of the Business Meetings



31 May	Notice of the amendments proposed
31 May	Elections: Nominations by Council
20 August	Elections: Nominations by Delegates
23 August	First Business meeting
24 August	Commissions and Working Groups
26 August	Second Business meeting
27 August	Commissions and Working Groups
	Second Council Meeting of IMA

The provisional agenda of the first Business Meeting is reported below:

First Business meeting - 23 August 2004

1. Welcome by President Ian Parsons
2. Roll call of the Delegates
3. Report of the President, Secretary and Treasurer
4. *Appointment of the Auditing Committee (Constitution, Article 5c) ?*
5. *Amendment of the Constitution ?*
6. Commissions and Working Groups
  - 6.1 - Recommendations to commissions
  - 6.2 - Proposals for new Working Groups  
*Proposals must be received by March 31, 2004*
7. Complementary nominations of Officers of Working Groups for the period 2004-2006 (Constitution, Articles 11, 12g and 13d).
8. Future meetings
  - 8.1 - 19th General meeting in Kobe, Japan. Invitation by the National Committee for Mineralogy, Science Council of Japan Academy (End of July 2006)
  - 8.2 - 20th general meeting in 2010
- 6.2 - Goldschmidt Conferences
9. The IMA Logo
10. Funding of IMA
11. Other Business
12. Closing by President Ian Parsons

*18.3.2 IMA is preparing its next 19th General Meeting (Kobe, Japan, 2006)*

Vice-President T. Yamanaka provided information for the Council Meeting in Nice, April 2003. Previous information were received for Council Meetings in Strasbourg, 2001, and in Edinburgh, 2002.

**IMA2006-KOBE Organizing Committee**

**National Committee for Mineralogy, Science Council of Japan**

Sponsored by

- Mineralogical Society of Japan
- The Japanese Association of Mineralogists, Petrologists and Economic Geologists
- The Society of Resource Geology

Date: July 23 –28 2006

Venue for Conference: International Conference Center of Kobe

Science Program:

International and Local Program Committee

IMA Commissions and Working Groups

Registration fee: US\$ 400

Donation: \*Grant in aid of Science Council of Japan

\*Kobe City

**General Events**

General Assembly

IMA Business Meetings

Council Meetings

Commission Meetings and Working Group Meetings

Science Program: Plenary Lectures, Symposia, Sessions (oral and poster presentations)

Workshops

Pre- and Post-conference Field Trips

Formal Events

Opening and Closing Ceremonies

Banquet

Conference Excursions

Optional One-day Sight Seeing Tours: Kyoto, Nara, Himeji,

Optional one-day Science Tour

Harima Synchrotron Facility

**Organizing Committee IMA2006-KOBE**

**General Chairman: Takamitsu Yamanaka** Osaka University

**Secretary : Eiji Ohtani (Chairman)** Tohoku University

Akira Tsuchiyama Osaka University

**Program Committee: Kiyoshi Fujino (Chairman)** Hokkaido University

Masaki Akaogi Gakushuin University

Makoto Arima Yokohama National University

Tetsuro Urabe University of Tokyo

International Science Program Bodies

IMA Commissions and Working Groups

**Treasurer: Takashi Murakami (Chairman)** University of Tokyo

Tetsumaru Itaya Okayama Science University

**Science Excursion: Satoshi Matsubara (Chairman)** The National Science Museum

Takeyoshi Yoshida Tohoku University

Akira Imai University of Tokyo

**Meeting secretariat: Masanori Matsui (Chairman)** Himeji Institute of Technology

Kazumasa Tomeoka Kobe University

Hiroaki Sato Kobe University

**Commission of Donation: Hiroki Kaneda (Chairman)** University of Tokyo

#### **Provisional Congress Information**

1<sup>st</sup> circular : September 1, 2004

2<sup>nd</sup> circular : September 1, 2005

Due of Abstract: January 31, 2006

Website : Home page of IMA2006-KOBE will be soon built.

Registration and Abstract

All applications of abstract and registration will be accepted only by electronic devices

#### **Tentative Science program**

**Plenary Lectures 10 talks**

#### **Symposia**

General Symposium

Commission Symposia

**Sessions** ca 35 sessions

1. Planetary and Cosmic Mineralogy
  - a. Mineralogy of meteorites, interplanetary dust particles and related materials
  - b. Shocked materials and events in the solar system
  - c. Extraterrestrial mineralogy related to sample return from Lunar, Mars, Asteroids etc.
2. Igneous and Metamorphic Petrology
  - a. Metamorphic rocks and metamorphic processes
  - b. Magmas and igneous processes in subduction zones
  - c. Ultramafic and related rocks and mantle processes
  - d. Ultrahigh pressure metamorphic rocks
3. Geochemistry and Ore Mineralogy
  - a. Isotope and trace element geochemistry in mineral exploration
  - b. Analysis of fluid and melt inclusions applied to mineralization
  - c. Bio-geochemistry of mineral accumulation
  - d. Sea floor hydrothermal activity and related deposits
4. Mineralogy of the Deep Interior of the Earth
  - a. Mineralogy and dynamics of the deep mantle and core
  - b. Hydrogen and water in the deep mantle
  - c. Kimberlites, diamonds and inclusions
5. Physics and Chemistry of Minerals
  - a. Mineral equilibria and thermodynamics of minerals
  - b. Spectroscopy of minerals
  - c. Physical properties of minerals

6. Mineralogical Crystallography
  - a. Crystal structures, defects structures and topology of minerals
  - b. Modular aspects of mineral structures
  - c. Mineralogy and crystal chemistry of rock forming minerals
  - d. Structural studies at non-ambient conditions
7. Mineral kinetics
  - a. Mechanisms and kinetics of phase transformations of minerals
  - b. Diffusion in minerals
  - c. Crystal growth, zoning and morphology
8. New Techniques and Developments in Mineral Sciences
  - a. Application of synchrotron radiation to mineral sciences
  - b. Application of first-principle methods in mineral sciences
  - c. Computational methods for the simulation of mineral properties
  - d. Nano materials/minerals in geoscience by TEM
9. Biomineralogy, Clay Mineralogy and Environment
  - a. Biomineralization and earth environment
  - b. Biosphere and geosphere interaction
  - c. Clays and zeolites: natural and synthetic materials
  - d. Mineralogical aspects of pollution by industrial products, nuclear wastes and others
  - e. Biomedical science
10. Applied Mineralogy
  - a. Mineral sciences for ceramics
  - b. Mineral syntheses and new high-technological materials
  - c. Gem materials
11. Mineral Heritage
  - a. Mineralogical and geological museums
  - b. Teaching of mineral science
  - c. New minerals and mineral classification

#### **Field and Conference Excursions**

IMA 2006 One-day Excursions

E11 Ikuno Mine and Mitsubishi Mineral Collection (Wada Collection)

E12 Nojima Fault (Hyogo-nanbu Earthquake)

#### **Pre-meeting**

E01 High grade epithermal Au deposits at the Hishikari mine, Osumilite and Sakurajima Volcano, southern Kyushu (3 days)

E02 Aso volcano and Alkalibasalt including REE-minerals, zeolites and peridotite xenolith, northern Kyushu 3 days

E03 Volcanic rocks around Matsue and Oki Islands (3 days)

E04 Sanbagawa metamorphic rocks around Niihama – Beshi area (3 days)

#### **Post-meeting**

E05 High temperature skarn at Fuka and Tojo, and Hydrothermal alteration clay deposit at Shokozan Mine (3 days)

E06 Granitic rocks and skarn in Seto Inland Sea (3 days)

E07 Mineral deposits including Kuro-ko and hydrothermal system in northern Honshu (4 days)

E08 Kamioka skarn deposit, Kamiokande and Jadeite-bearing metamorphic rocks around Itoigawa – Ohmi area (4 days)

#### *18.3.3 IMA is preparing its next 20th General Meeting (either Paris or Budapest, 2010)*

Paris: Information were provided by G. Calas. Paris is a candidate for the tenue of the 20th General Meeting in Paris (2010). This candidacy proposed by D. Neuville arrived at the IMA secretary's office on the first of March 2002. G. Calas send a second proposal on the 30rd of August which was presented during the First Council Meeting.

*Historical backgroud:* France has already organised the 10th General meeting in 1980 in Orléans, as Claude Guillemin was President of IMA. During the same year, the International Geological Congress occurred later on in France.

*Invitation :* the French Society of Crystallography and Mineralogy joined with the Belgian Mineralogical Union.

*Venue for Conference:* Campus of Jussieu, University of Pierre and Marie Curie, close to the center of Paris.

*Key dates:* Sunday 22 to Friday 27, August 2010.

*Expected number of participants:* 1000 (oversee 700 - domestic 300) ?

*Registration fees:* 300 US\$, and for field trips 400-500 US\$

*Accommodation:* Block bookings will be made for hotel close to Jussieu.

Other accommodation is not difficult in Paris. Cheap accommodation will be found for students at the International student City inside Paris. Lunch: Meal tickets will be provided at the University. Many restaurants are located close to Jussieu.

*Scientific Program:*

International and Local Program Committee; IMA Commissions and Working Groups.

Expected sessions on biomineralogy, mineral properties at high temperatures and pressures, nuclear waste management, cultural heritage, spectral mineralogy, remote sensing, planetary mineralogy, Martian exploration, glasses, melts and amorphous materials.

**Field trips:** before and after the Meeting in eastern France and Germany, Alsace, Alps (Oisans - Mt-Blanc), Massif Central, Brittany, Ardennes, Belgium, Loire valley (preservation of old monuments), Central part of France (old mines). One day trip to "Soleil" (synchrotron radiation), or Louvres Museum Research Laboratories.

**Financial support:** It is expected from public fundamental and applied research organisation, as well as from private companies.

**Organisation Committee:** France: G. Calas, E. Balan, A. Baronnet, M. Buatier, C. Chopin, B. Devouard, F. Farges, L. Galoisy, Ph. Gillet, M. Guiraud, F. Guyot, JM. Montel, D. Neuville; Belgium: B. Delvaux, M. Deliens, J. Elsen, AM. Fransolet, E. Pirard, Ph. Muechez, R. Vochten.

**Congress Secretary's office:** SFMC, tour 16, Casier 83, 4, place Jussieu, 75252 Paris Cedex O5, France.

**Contact :** Prof. Georges Calas; calas@inmail.lmcp.jussieu.fr Tel.: (33) 1 4427 6872

**FAX:** (33) 1 4427 3785

**Location information:** Less than one hour from Roissy-Charles de Gaulle airport by train RER and the underground Metro. Most of the international cities are connected to Paris by plane. Some European towns are also connected by high-speed trains.

**Budapest:** Invitation: A preliminary proposal was submitted to the IMA Council in Strasbourg, in Spring 2001. Three societies, namely the Romanian, Hungarian and Slovak IMA member societies would gladly invite the 20th General Meeting of IMA into the Carpathian - Pannonian region.

A fourth IMA member society, the Austria society is going to join the organisation. Other neighbor IMA member societies, Czech Republic, Poland, Ukraine, Serbia, Croatia have been invited to contribute to particular parts of the project, such as for field trips and special symposia.

**Historical background:** The Carpathian - Pannonian region is of long tradition for mineralogy. In 2010 the 275th anniversary of the foundation of the famous Schemnitz Mining School (1735) will be celebrated, as well as the 225th anniversary of the foundation of the World's first really international scientific society (Societat der Bergbaukunde, Glashutte, Slovakia, 1785), a precursor of the IMA.

According to the traditions of IMA, the 20th General Meeting will probably take place in Europe. There many IMA GMs have already been organised, but there was no GM in the Carpathian - Pannonian region, in spite of the fact that most of the regional mineralogical societies have been active members of IMA since the 60-ies, and are still active, as judged by the Edinburgh meeting.

Parts of the region (e.g. Transylvania) were out of the international scientific circulation for several decades. It is one of the important missions of IMA to help the development of mineral sciences in all regions of the World.

The region can be characterized by a developed, differentiated institutional structure in the mineral sciences: several strong university departments and academic/applied research institutions of long traditions

In addition, the region has many attractive mineralogical / petrological / geochemical / ore deposits and also cultural sites to visit.

**Venue for conference:** The new Riverside Campus Facilities of the Eotvos L. University, Budapest (completed in 2002, high standard, very moderate costs).

**Key date:** August 29 (Monday)- September 3 (Friday) 2010.

**Expected number of participants:** 1000-1100 (These figures are based on the success of the Pisa GM in 1994. A (to Pisa) similar financial and organisational strategy + the very good geographical location give reality to that number.)

**Registration fees:** maximum 200/250 EURO

**Grant system:** extended:

- 1) Special grants for the non-European, not developed IMA member countries and non-member 3rd world regions
- 2) Special grants for students
- 3) Special care for the colleagues from the former Sovietunion. As Hungary has got a short common border with Ukraine a good service was developed for travelling from Russia at very cheap costs.

**Accommodation:**

low cost at the campus: 10 EURO.

standard: 30-50 EURO;

higher class 70-90 EURO;

luxus: up to the stars...

The general services in the region are of a good standard. This is confirmed by the success of many smaller and larger international conferences. Though this region is to join the European Union as Hungary, Poland, Czech Rep., Slovakia in 2004 and later on Romania, the costs of services related to a conference are expected to be moderate even during the next 8 years.

**Scientific program** - more details will be decided in the preparatory meeting of the initiators in March 2003 and will be presented in Florence in 2004. The content of the scientific programme - 1) it will reflect the hottest topics of our science (as of 2010...) in the form of invited plenary lectures and special symposia and 2) will cover all the traditional fields of mineral sciences (as it is expected from a GM of the IMA)

One of the key parts of the programme will relate to the connection between mineral and environmental sciences (environmental mineralogy/geochemistry, mineralogy of non-consolidated earth materials, biomineralogy etc.), a field very important in the Carpathian-Pannonian Region.

The organisational structure of the scientific programme will be the same as it was in Edinburgh (Monday-Friday), except for the first business meetings of commissions and Working Groups which will be proposed to have on Sunday, right before the meeting starts.

**Field trips** - Intensive pre- and post-congress field trip programme is planned. The trips will vary both in length (1-5 days) and in subject (covering all fields of mineral sciences + cultural programme). There are more than 1000 mineral species described in the region, about 60 of them first described from here. See for examples: Szakall, S. (ed): Minerals of the Carpathians. Granit, Prague, 2002. pp 1-479; ISBN: 80-7296-014-8), important magmatic (see e.g.: dacite), metamorphic and sedimentary formations (e.g. bauxite, black shale related manganese mines). Many well preserved relicts of the early (Stone Age, Roman time, Medieval) mining activities can also be visited.

**Financial support** - The organizing societies have got a solid practice in fund raising for international conferences. Fund raising is structured on different levels:

- 1) local (institutional and private),
- 2) national (national research funds, national organisations for international scientific exchange, academies; mapping of bilateral exchange agreements for helping travel, etc.)
- 3) regional (e.g. International Visegrad Fund)
- 4) European (regional development projects; direct conference aids)
- 5) international (ICSU via IMA/IUGS).

**Organisation committee** - For the moment the top officers of the initiating IMA member societies: Prof. Gheorghe Udubasa, Bucharest, President; Dr. Gabor Papp, Budapest, President; Dr. Martin Chovan, Bratislava, IMA NR) represent the OC. A temporary OC will formally be created on the preparatory meeting in March 2003. That temporary OC will prepare the details of the final invitation presented to the IMA BM in 2004. In the case of a positive decision of the IMA BM for the Carpathian-Pannonian Region a final OC will be formed by broadening the temporary OC.

**Congress secretary's office:** will be located in Budapest either in the Office of the Hungarian Geological Society or at the Eotvos L. University

**Contact** (till the decision on the final place of the congress secretary's office): Tamas Weiszburg: Department of Mineralogy, Eötvös Loránd University, Pázmány Péter sétány 1/c H-1117 Budapest. Phone: +36-1-381 2205. Fax: +36-1-381 2110. E-mail: weiszburg@ludens.elte.hu

Location information - The region is in between the former West and East, there is easy access from both sides, and also from other continents. The international airports of Budapest connect the city directly to some overseas and to all important European destinations. Budapest is on the European motorway network (2 hours from Vienna) and the termination of many intercity trains from both west and east. Within the city the Riverside Campus facilities of the Eotvos L. University is located in a distance of about 30 minutes from the airport, along the Danube, in between two bridges, both important lines for public transport and vehicles. There is an easy connection to both the western and the southern motorways.

### **19. TREASURER PROJECT**

IMA is running basically on a four year budget. The annual budget of IMA is strongly constrained by the low income. As the scientific policy of IMA is now to be involved in great international meetings, new expenses would be generated to sustain mineralogists to participate in these meetings. In addition, it is planned that the Executive Committee of IMA would give regular information in a new International Magazine for Mineralogy, Geochemistry and Petrology, and this probably would create some expenses. Besides this, for the year 2004, IMA exceptionally will fund the building of a new Website for IMA. In addition, a part-time secretariat (eight hours per month) will be also funded.

The total projected expenditure for 2004 is such that on an annual basis that will be difficult to sustain within the present dues policy of IMA. For these reasons, funding of IMA will constitute an item to be discussed during the next Council Meeting in Florence.

### **20. REPORTER'S NAME AND POSITION IN THE ORGANISATION**

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