

International Union of Geological Sciences
REPORTING FORM FOR CONSTITUENT BODIES
2002

1. TITLE OF CONSTITUENT BODY

International Mineralogical Association (IMA)

IMA General Website: www.dst.unipi.it/ima

SUMMARY

IMA comprises 38 Mineralogical Societies or groups. During the past four years, IMA has sponsored, co-sponsored sessions through Commissions (Com.) and Working Groups (WG.) in 7 International Congress, comprising the two IMA General Meeting in Toronto (1998) and Edinburgh (2002), 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), the SGA/IAGOD International Congress on Mineral deposits (1999). IMA also participated to ECROFI symposia, EMU schools and to International Gemmological Conferences (Annex-Table 1). Three Com./WG., the Com. on Applied Mineralogy, the Com. on ore Mineralogy and the WG. on Mineral Inclusions regularly organized short courses and workshops (Annex-Table 5). 7 Com/WG. provided books with mineralogical tables and classification of minerals, and special issues in International Journals (Annex-Table 7).

In 2002, IMA hold his General Meeting in Edinburgh. Significant changes were proposed to improve the scientific activities of IMA and its legibility.

The new Council 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.

Four amendments were accepted to change the constitution: Com/WG. should provided annual instead of biannual reports; Officers of Com/WG. may be replaced by the Council when necessary during years intervening between business meetings.

Three Commissions/Working Groups were voted to be terminated: the Com. on History and Teaching, the W.G. on Database and Computer Applications and the W.G. on Cosmic Mineralogy. 21 Officers over a total maximum of 33 were replaced. A new Committee on technical computer applications is created: it should provided within six months a detailed plan to develop services at the IMA Website and to increase direct communication between mineralogists around the world. New proposals in the fields of Cosmic Mineralogy and Environment are requested among the international scientific community. A Councillor is designed in each commission and working group to straighten the link between the Council and Com/WG. in order to better follow the scientific activities of Com./WG., and to give advice when necessary.

The future of IMA is to increase its contribution within International Meetings and to develop internal communication and legibility. IMA will sponsor/co-sponsor six sessions during the first EGS-AGU-EUG Joint Assembly, in Nice, 2003. The executive committee of the IGC, Florence, 2004 has accepted the sponsoring/co-sponsoring of IMA for 20 sessions. 4 sessions are proposed to the Goldschmidt Conference (2003). Projects of symposia organized by Com./W.G. during International Congress may be chosen by the Council to be financially supported by IMA.

Most of the Com./WG. plan to develop their Website, to up-to-date datafile on mineralogists, to increase the frequency and regularity of business meeting and circulars. A competition is planned for IMA to have a logo. The winner will receive a price of 200 \$US.

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. The two next Council Meetings will occur in Nice (5 April 2003, in the afternoon) and in Florence (2004). The scientific activities of five Com./WG. will be reviewed during the next Council Meeting in Nice, 2003 and later on during the Business meeting in Florence.

Other information:

Information from the IMA secretariat should circulate 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.

List of National Delegates reviewed in 2002 have to be checked up again, and lists of members of Com./WG. have to be reviewed in 2003 by National representatives and chairmen of Com./W.G..

Financial and secretarial records from IMA have to be stored within an office belonging to the Mineralogical Society of America, in Washington, DC.

The Treasurer recommends to send cheque to pay annual dues to avoid bank taxes. New letters will be sent to the few countries late in their payment.

2. OVERALL OBJECTIVES

The IMA is the only truly international organization 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 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. ORGANIZATION (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 18th, and Kobe the 19th 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 to initiate as Working Groups.) Currently (for the term 1998-2002) 9 Commissions and 5 Working Groups of IMA exist. Three Commission/Working groups were voted to be terminated in Edinburgh (see paragraph 7) and proposals for the creation of two or three Working groups will be considered by the Council in 2003 during the annual meeting in Nice. 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 is now involved in the first EGS-AGU-EUG Joint Assembly which will be 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 organizations/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 will jointly sponsored or co-sponsored 7 sessions in the first EGS-AGU-EUG Joint Assembly in Nice (Annex - table 3).
- 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 2002

IMA has held its 18th GENERAL MEETING from 1st to the 6th of September 2002 in Edinburgh, UK, under the responsibility of Ian Parsons. Most of the year was devoted to the preparation of scientific sessions in which IMA Com./WG. were involved (Annex - table 2) and to the preparation of the Council Meeting and Business Meeting. This led to significant changes within the constitution to favor increasing scientific activities and communication, as well as for the composition of the Council, and that of Commissions and Working groups. The main secretary work was to contact National Representatives in order to get up-to-date lists of National Representatives and Delegates, and to develop IMA participation within Congress.

7.1 Report on the Edinburgh General Meeting

The text below is partly taken from Ian Parsons report published in Mineralogical Society Bulletin dec. 2002.

Organization

The 2002 meeting was organized jointly by the Mineralogical Society of Great Britain and Ireland (through its permanent staff and by representatives of its various special interest groups) and by a group based in Edinburgh. This shared approach worked extremely well. It meant a truly huge amount of work for the permanent staff of the Min Soc, Adrian Lloyd-Lawrence. The latter and Ian Parsons exchanged hundreds of emails many of them concerned with policy matters carrying financial implications). Other people involved were Russell Rajendra whose main task of getting in the money from delegates from 44 different countries and Kevin Murphy who among other things had the daunting task of editing and producing the very substantial abstract volume to a very tight time schedule. We all dealt with huge numbers of emails.

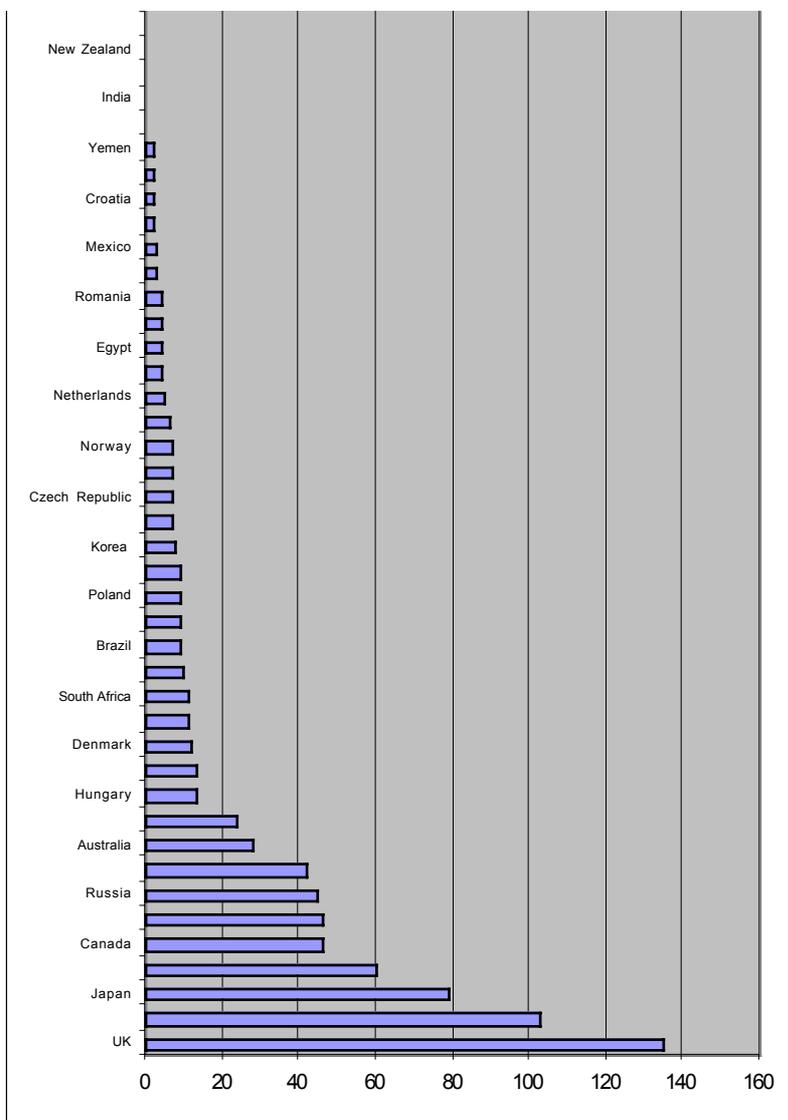
Adrian and Liz Loeffler constructed a striking website which ultimately provided all registrants with a pdf version of the 'Programme with Abstracts' well before the meeting. The electronic registration forms were especially clear.

In Edinburgh, Simon Harley, Ben Harte (Geology and Geophysics), Brian Jackson (Royal Museum of Scotland) and Jeff Harris (Geology, Glasgow) gave a great deal of their time to meeting logistics and social and field excursion matters. Martin Dove, Kathryn Goodenough, Simon Harley, Ben Harte, Stuart Haszeldine, Stephen Hillier, Brian Jackson, Simon Kelley, Clive Rice, Eva Valsami-Jones and Frances Wall, representing the Min Soc special interest groups, made up the programme committee.

The Natural History Museum very kindly provided a nice room, and a reception, for what was the most important planning meeting, in April this year, when the programme was finally set.

A large number of mineralogists from many countries acted as session convenors, many of them developing suggestions which came from the Commissions and

Working Groups of the IMA. Fourteen postgrads from Edinburgh and one from Derby University acted as cheery and efficient helpers during the meeting, and several Edinburgh colleagues helped with field trips. A bus tour occurred on three evenings to sites representing the scientific history of Edinburgh relevant to mineralogy. Brian Jackson used the resources of the Royal Museum of Scotland to provide displays in the conference centre, not only of lovely minerals but of Edinburgh mineralogical memorabilia, including one of William Nicol's original home-made prisms.



Attendance

In the end 798 delegates registered, of whom 86 were 'accompanying', we shared a half-day session with the European High Pressure Research Group, who happened to be meeting in Edinburgh at the same time, and our own student helpers were able to attend some of the scientific sessions, so that altogether 892 people took part. Nearly 80% of registrants came from a quarter of the countries represented (Fig. 1). The meeting was held in the expensive Edinburgh International Conference Centre rather than using much cheaper University lecture halls, a decision taken by MinSoc Council almost six years ago. The EICC staff were efficient and helpful, and although not perfect, it seems there were fewer problems with electronic data projection (Powerpoint) than there often are. The cost of the centralized system was about £20,000 for the week, a budget item which simply didn't exist when we first booked the conference centre. The main disappointment was with the high cost and poor quality of the food provided. In the end the caterers were subsidized by your MinSoc, because their contract meant that we made up any shortfall below what was with hindsight an unattainable level of sales.

The finances of the meeting were a real trial and it is still not clear whether it shall have broken even, mainly because of unresolved issues over VAT. 74% of delegates registered for the end-March deadline which gave them reduced-rate registration. Of the remainder a number opted for paying the daily rate and 'cherry-picking' the meeting for the sessions of interest to them. It was disappointing, but perhaps understandable, that many UK participants took this route, and that little more than 10% of UK Min Soc membership attended at all. Of those who did, more than half were responsible for some aspect of the organization!

We made the meeting accessible to delegates from less developed countries through a bursary scheme, supported by the Mineralogical Society of America, Mineralogical Association of Canada, Società Italiana di Mineralogia e Petrologia, Mineralogical Society of Japan, Geological Society of Australia, Statoil, and by our own Min Soc. Some 70 delegates, about half from the FSU, had their

registration fee waived under this scheme. The Société Française de Minéralogie et de Cristallographie and Deutsche Mineralogische Gesellschaft had schemes for disadvantaged workers in their own countries. There was a certain amount of criticism for not offering a 'student' registration rate, but I think this is misguided as in many countries postgrads can get meeting money and we would have ended up subsidizing the well-to-do. This involvement of world Min Socs in supporting the meeting was a new departure for IMA. IMA belongs to the international mineralogical community and exists to foster collaboration at all levels and between all countries. The support of the bigger Min Socs shows their commitment to this ideal, and are thanked for their support. Rio Tinto provided meeting bags and the University of Edinburgh a reception before the meeting banquet. The MinSoc generously provided an enjoyable ice breaker and the Delegates enjoy a Gay Gordons dance at the ceilidh held at the Caledonian Brewery.

The Scientific Programme

The scientific programme, based on eight parallel sessions each day and two extended poster sessions, was very full (too full, I was told, for some delegates) but no-one has to go to everything and for delegates who have travelled long distances only a full programme is acceptable. The plenary lectures, two in succession on most days, were universally excellent and the published versions made a very good special issue of Mineralogical Magazine — Journal of Mineral Sciences to which I hope students, among others, can be directed for an overview of modern mineralogy. A number of experienced participants commented on the high standard of the science in general. This was pleasing because IMA has to accommodate delegates from the mainstream of researchers who may not have attended a big international meeting before. The very word 'international' carries particular clout in many developing countries and such meetings may be the only ones for which potential delegates can obtain funding.

Council Meeting and Business Meeting

Time has been set aside in the programme for the meetings of commissions and working groups, for meetings of the IMA Council and for the business meetings of national IMA representatives.

Edinburgh 2002: IMA commissions, business and council meetings		
IMA Council meetings	Sunday 1st September Friday 6th september	13.30 to 18.45 at Pollock Halls (Reception) 17.00 to 20.00 at EICC (Harris Room)
Opening ceremony.	Monday 2nd September	12.40 to 13.00 Pentland auditorium (Profs Ian Parsons, meeting chairman, Tony Naldrett, president of IMA, Bernie Wood, president of Mineralogical Society of Great Britain and Ireland)
Commissions and Working Groups of the IMA		
<i>Tuesday 3rd September</i>		<i>14.20 to 16.20</i>
Commission on New Minerals and Mineral Names (Session 1)		Harris Room 1
Commission on Ore Mineralogy		Harris Room 2
Commission on Applied Mineralogy		Carrick Room 1
Commission on Classification of Minerals		Carrick Room 2
Commission on Crystal Growth of Minerals		Carrick Room 3
Commission on Gem Materials		Ochil Room 1
Commission on History and Teaching		Ochil Room 2
Commission on Museums		Ochil Room 3
<i>Wednesday 4th September</i>		<i>18.00 to 19.30</i>
Commission on New Minerals and Mineral Names (Session 2)		Harris Room 1
<i>Thursday 5th September</i>		<i>14.20 to 16.20</i>
Commission on New Minerals and Mineral Names (Session 3)	Harris Room 1	
Commission on Physics of Minerals		Harris Room 2
Working Group on Cosmic Mineralogy		Carrick Room 1
Working Group on Databases and Computer Applications		Carrick Room 2
Working Group on Inclusions in Minerals		Carrick Room 3
Working Group on Mineral Equilibria		Ochil Room 1
Working Group on Organic Minerals		Ochil Room 2
IMA Business Meetings:		
Tuesday 3rd September	16.40 to 19.00	Sidlaw auditorium
Thursday 5th September	16.40 to 19.00	Sidlaw auditorium
All delegates are encouraged to attend the Business Meetings of the IMA and to contribute to the discussion. If matters arise requiring a vote, under the IMA constitution only delegates nominated by official national representatives are permitted to vote, the number with voting rights being proportional to the size of the member national mineralogical organization.		
Closing Ceremony	Friday 6th September 16.40 to 17.00	Pentland auditorium

7.2 Changes within the Constitution

The outgoing President, Tony Naldrett, and the IMA Council, introduced changes in the constitution in Edinburgh which should help to ensure that in future its Commissions are more proactive and outward looking and that changes can be made more rapidly.

It was widely accepted by the delegates during the second Business Meeting to get an annual report instead of a biennial report from Commission and Working groups.

New amendments

Article 12 (f) The chairman of each Commission shall submit an annual report on its activities to the Secretary of the Association each year. The Secretary of the Association shall distribute copies of all activity reports to the Delegates prior to the Business Meeting. The chairman of each Commission shall submit a second report on activities during the General Meeting to the Secretary of the Association, not more than four weeks after the last Business Meeting. The Secretary of the Association shall send copies of the activity reports to the Representatives along with the minutes of the Business Meeting.

Article 13 (d) The chairman of each Working Group shall submit an annual report on its activities to the Secretary of the Association each year. The Secretary of the Association shall distribute copies of all activity reports to the Delegates prior to the Business Meeting. The chairman of each Working Group shall submit a second report on activities during the General Meeting to the Secretary of the Association, not more than four weeks after the last Business Meeting. The Secretary of the Association shall send copies of the activity reports to the Representatives along with the minutes of the Business Meeting.

In addition, Delegates voted for a new amendment added to the by-laws both for Com. and WG.. This amendment increases the power of the Council to change Officers within Com./WG. when necessary.

Article 12 (h) - Commissions

(h) If a two-third majority of the Council deem it necessary, Council has the power to replace the officers of a Commission (Chair, Vice-Chair and/or Secretary) at any stage during the years intervening between business meetings. Replacements may not necessarily be from existing members of a commission.

Article 13 (f) - Working Groups

(f) If a two-third majority of the Council deem it necessary, Council has the power to replace the officers of a Working Group (President, Vice-President and/or Secretary) at any stage during the years intervening between business meetings. Replacements may not necessarily be from existing members of a Working Group.

7.3 Changes within the Council

A new Council was elected during the second Business Meeting in Edinburgh. The Council comprises:

President:	Ian Parsons
First Vice-President:	Takamitsu Yamanaka
Second Vice-President:	Nicolai Yushkin
Treasurer:	Cornelis Klein
Secretary:	Maryse Ohnenstetter
Councilor:	Alain Baronnet
Councilor:	Ian Campbell
Councilor:	Kari Kojonen
Councilor:	Marcello Mellini
Councilor:	Werner Schreyer

7.4 Changes within the Commissions and Working groups Activities

The composition and activities of Com. and WG. were considered during the first Council meeting and comments are reported in the Minutes of the First Council meeting. Most of the Commissions have a number of Delegates comprised between 20 and 30. Two commissions, that on Crystal Growth of Minerals and the one on Physics and Chemistry of Minerals, have few delegates as most of the Working Groups, that is below 10. The few number of Delegates in these Commissions may be explained by the limited development of the respective scientific branches in mineralogical laboratory, despite of their present-day great interest. The Commission on New Minerals and Mineral Names has the largest amount of Delegates (33), followed by the Commission on Ore Minerals (31). It may be underlined that CNMMN is clearly the most active commission, and COM is among the most active Com./WG..

Activities of Com./WG. have been appreciated through their reports. Some of them are missing while some other are tenuous. All of these features lead to recommendations transmitted to delegates during the Edinburgh meeting, with proposals on the continuation or termination of Com./WG.. This

was voted during the Second Business meeting. A summary of recommendation send to all National Representatives and Officers are reported below:

CAM -	to continue but to be reviewed in two years
CCM -	to continue with a profile better distinguished from CNMMN
CCGM -	to continue with new officers, new project and new title
CGM -	to end
CHT -	to end
CM -	to continue with new officers
CNMMN-	to continue
COM-	to continue but to encourage development of scientific activities
CPM-	to continue but to redevelop with new officers
WGCM-	to continue with new officers
WGDCA-	to end
WGME-	to continue
WGIM-	to continue but to encourage development of scientific activities
WGOM-	to continue but to enlarge participation at the international level

Finally, three Com./WG. were voted to be terminated: the Com. on History and Teaching, the Working Group on Databases and Computer applications, the Working group on Cosmic Mineralogy. Other Com./WG. will be examined during the Florence meeting in 2004: the Com. on Applied Mineralogy, the Com. on Mineral growth and Interface processes (former CCGM), the Com. on Gem Materials, the Com. on Physics of Minerals, the WG. on Astromineralogy (former WG.CM), the WG. on Inclusions in minerals. In addition the project proposed by a new committee on Computer and Technical Applications will be considered in Nice.

According to IMA constitution, Articles 11, 12g and 13d, the list of Chairs proposed during the first Business Meeting were completed between the two Business Meetings and reported on a Conference board. 17 chairs over 30 are newly elected. In addition, a specific link will be created between the Council and each Com./WG. by a Councilor who could help the Com./WG. when necessary.

Commission/ Working group		Position	Name	Year of appointment	Yes	No
C. on Applied Mineralogy	COM	Ch.	Richard D. Hagni	since 1990	56	3
		V-Ch.	Eric Pirard	2002 proposal		
		Sec.	Henrique Kahn	Since 1998		
C. on Classification of Minerals	CCM	Ch.	Yu Pushcharovsky	Since 1998	58	1
		V-Ch.	Ernst Nickel	2002 proposal		
		Sec.	Andrew McDonald	2002 proposal		
C. on Gem Materials	CGM	Ch.	Margherita Superchi	Since	42	6
		V-Ch.	Pieter C. Zwann	Died in Nov.02		
		Sec.	Lin Sutherland	Since 1998		
C. on Mineral Growth and Interface Processes	CMGIP	Ch.	Cornelis Woensdregt	2002 proposal	61	
		V-Ch.	Katsuo Tsukamoto	Since 1994		
		Sec.	John Rakovan	2002 proposal		
C. on Museums	CM	Ch.	Lydie Touret	2002 proposal	58	1
		V-Ch.				
		Sec.	Kay U. Schuermann	Since 1996		
C. on New Minerals and Mineral Names	CNMM N	Ch.	ErnstBurke	2002 proposal	60	
		V-Ch.	Giovanni Ferraris	Since 1998		
		Sec.	William D. Birch	Since 1996		
C. on Ore Mineralogy	COM	Ch.	Roland K.W. Merkle	2002 proposal	57	2
		V-Ch.	Kari K. Kojonen	2002 proposal		
		Sec.	Nigel J. Cook	2002 proposal		
C. on Physics of Minerals	CPM	Ch.	Georg Amthauer	2002 proposal	59	2

		V-Ch.	Euji Othani	2002 proposal		
		Sec.	Daniel Neuville	2002 proposal		
WG. on Inclusions in Minerals	WG.IM	Ch.	Li Zaolin	2002 proposal	58	3
		V-Ch.				
		Sec.	S. Smirnov	2002 proposal		
WG. on Mineral Equilibria	WG.ME	Ch.	Leonid Perchuk	Since 1998	58	3
		V-Ch.	Masaki Akaogi	Since 1998		
		Sec.	Oleg Safonov	2002 proposal		
WG. on Organic Minerals		Ch.	Norbert Vavra	Since 1998	57	2
		V-Ch.				
		Sec.	Waltraud Winkler	2002 proposal		

8. CHIEF PROBLEMS ENCOUNTERED IN 2002 (if any)

No major problems were encountered in 2002. The main activity was preparation for the 2002 Edinburgh meeting.

9. CHIEF PRODUCTS (e.g. publications, maps) IN 2002

No publications or maps resulted from IMA activities in 2002.

10. SUMMARY OF EXPENDITURES IN 2002

Income		Expenditures		Year and balance
1999				
Dues received	6,609.01	Com. on NMMN	1,514.39	
Toronto IMA		Wire transfer charges	78.00	
Return of advance	12,000.00			
Toronto IMA				
Surplus to IMA	16,452.00			
Interest	556.23			69,995.67
2000		Com. on NMMN	1,515.00	
Dues received	7,208.00	Australian Museum		
Interest	1,999.34	Conference	3,015.19	
		IMA dinner, Rio	237.71	
		Wire transfer charges	90.00	74,345.11
2001				
Dues received	9,571.00	Com. on NMMN	1,514.90	
Interest	1,777.09	Wire transfer charges	149.00	84,029.30
2002 (until Aug.21)		Com. on NMMN	1,500.00	
Dues received	6,528.00	Min.Soc.Britain		
Transfer by Dorian Smith for IMA DataWG.	4,546.56	For IMA 2002	5,000.00	
Interest	495.00	IMA postage for files send to Sec. From Mandarino		
		Wire transfer charges	31.44	
			128.00	88,929.42

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 income varies also because some countries are delinquent one year, and double their payment in the next year.

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.

In the next future, Com. on NMMN will no more be helped because all communications between members will be done through electronic mailing.

11. WORK PLAN FOR NEXT YEAR

The Council will encourage Commissions and Working groups to be more active and to have a better communication policy. Several Com./WG. are involved in the seven sessions sponsored by IMA and EMU during the Nice EGS-AGU-EUG Joint Assembly, Nice, and part of the IMA activities in 2003 will be focused on the preparation of this Congress, and on the preparation of the Council Meeting.

Involvement of IMA in International Meeting will be pursued.

Website homepage for each Com./W.G. will be developed, with information on Com./WG. activity currently reported. Circulars should be also regularly produced within Com./WG..

New Committee and Working Groups have to prepare new proposals to be examined during the Council Meeting in Nice.

Creation of a logo for IMA will occur through a competition.

12. CRITICAL MILESTONES TO BE ACHIEVED NEXT YEAR

- Proper scientific preparation of the 2003 Joint Assembly in Nice
- Examination of the committee on Computer and Technological Applications
- Review of the activities of Commissions and Working groups during the Council meeting in Nice:
- Refreshing the structure of the IMA homepage (www.dst.unipi.it/ima/)
- Creation of homepage for some Com./WG.
- Creation of a logo for IMA
- Establishing a double link to contact national Society Member, through National Representative and a permanent (President, secretary)
- Review of the membership matters of the IMA Com. and W.G..
- Setting up the IMA Archive.

13. ANTICIPATED RESULTS:PRODUCTS NEXT YEAR

IMA will have a logo. Several Website will be created or up-dated. IMA archives will be transferred to the U.S. The projects of new Working groups and Committees will be considered next year in Nice.

14. COMMUNICATION PLANS

Communication within IMA is of prime importance and regular information are now provided through Newsletters, a bulletin related to the Mineralogical Society of Canada. In 2002, the IMA secretary informed the International Community on the composition of IMA, and on its scientific goals and activities. In December 2002, the policy of IMA was revisited by the New president.

Information are now regularly sent to National Representatives and Chairs by electronic mail and a copy is provided to Councilors (see the list of main documents provided in 2002). The IMA Website is modified accordingly.

Communication with IUGS and other ICSU Scientific Union Members and National Scientific Members, is vital in connection with our planned application in the frame of the ICSU "Grants Programme".

In addition, 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 preparing a project to improve communication.

List of documents provided to Councilors before the Edinburgh meeting (e-mail and hard-copy)

1. President's remarks
2. President's proposal to change the constitution
3. President's letter to Mrs Criddle
4. President's proposal for the participation of IMA to the New EUG/AGU meeting in Nice 2003
5. Secretary reports : IUGS 2001 report and Chronicle published in Newsletters (June 2002)
6. C.V. of Councilors for the proposed next IMA Council
7. List of National Representatives and Delegates
8. IMA Official events and Timetable
9. Delegates to the Business Sessions during the 18th General Meeting
10. Alternates
11. Officers of the past Commissions and Working groups
12. Proposals for New Officers of Commissions and Working Groups

13. Members of Commissions and Working groups (14 files)
14. Reports from Commissions and Working groups
15. Daniel Neuville's proposal for the 20th General Meeting to be held in Paris

List of the main documents provided to National Representatives and/or to National Delegates before the General Meeting in Edinburgh

1. IMA 2001 report to IUGS and a copy of the past report (2000)
2. Provisional Agenda for the two Business Meetings in Edinburgh
3. Chronicle published in Newsletters (30/4/02)
4. Secretary's letter about constitution (3 May 2002)
5. President's letter to Mrs Criddle (6 May 2002)
6. Reports of Commissions and Working Groups (e-mail and hard copy) with the list of reports send to National Representatives
7. The lists of Delegates and Alternates for the Edinburgh Meeting
8. Proposal for the new Council with a short CV
9. Timetable and sessions during the Edinburgh General meeting (21/6/02)
10. President's letter to National Delegates (3 July 2002)
11. IMA Official events (13 August 2002) provided by Ian Parsons
12. Table of Officers and new proposals (30 August 2002)

15. SUMMARY BUDGET FOR NEXT YEARS

The income will comprise dues in the range obtained during the last years about 7000 U.S. dollars. Expenditures for CNMN will be suppressed because communication between members will be through electronic mails. However, it is planned to give financial helps to some Com. or W.G. which will organized original sessions within International Congress.

Income		Expenditures		Year and balance
2003				
Dues received	7000	Projects of sessions of	3000	
Interest	1000	Com./W.G.		
	8000	Setting up of Archives	1000	
				92,929.42

16. POTENTIAL FUNDINGS

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

LAST AND NEXT 5 YEARS

17. REVIEW CHIEF ACCOMPLISHMENTS/RESULTS OVER THE LAST 5 YEARS (period 1998-2002).

17.1 On the level of the Council

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.

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 2nd Vice-President until the Edinburgh business meeting.

The council of IMA comprised up to the Edinburgh meeting the following:

President,	currently A.J. Naldrett
Past-President,	currently Stefano Merlino
Treasurer	currently Cornelius Klein
1 st Vice-President	currently Ian Parsons
2 nd Vice-President	currently Takamitsu Yamanaka
Secretary	currently Maryse Ohnenstetter
Councilors	currently Alain Baronnet (France), Werner Schreyer (Germany), Ian Campbell (Australia), Nikolai Yushkin (Russia)

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 organization. 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. Some information are still missing for 6 countries. Up-to-date information on National representatives and delegates to Commissions and Working Groups are regularly reported on the Website.

The IMA time table to prepare the Edinburgh General Meeting is indicated below. Documents were prepared in due time and distributed to National Representatives, Officers and Councilors.

2002	
31 January	Suggestions of candidates for Council 2002-2006 to be submitted to the secretary
March	Deadline for submission of abstract and payment of reduced registration fees
31 April	Deadlines for proposals to prepare the Business meetings (to be send to the secretary).
15 May	Deadline for proposals on Amendments of the Constitution (to be send to the secretary)
31 May	Program of the Business Meetings
31 June	Notice of the amendments proposed
31 June	Elections: Nominations by Council
1 September	Elections: Nominations by Delegates
3 September	First Business meeting of the IMA
3 September	Commissions and Working Groups of the IMA
5 September	Second Business meeting of the IMA
5 September	Commissions and Working Groups of the IMA

An additional Council meeting occurred before the second Business Meeting.

On the 15th of November 2001, IMA deadlines were send to National Representatives and Officers. 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.

Procedures to elect the IMA Council, and chairmen and secretaries of the IMA Commissions (Com.) and Working groups (WG.) by Delegates at the Second Business Meeting of the 18th General Meeting in Edinburgh, United Kingdom (1-6 September 2002), have been send to National representatives and Chairs of Commissions and Working groups. The procedure for the election is described in the Constitution.

The IMA Website was modified to have up-to-date files and information.

17.2 On the level of Commissions and Working groups.

Activities of Commissions and Working groups are summarized within the 8 tables (see annex). Reports from Com./WG. were distributed to National representatives and Councilors.

IMA has sponsored, co-sponsored sessions generally through Commissions (Com.) and Working Groups (WG.) in 7 International Congress comprising the two IMA General Meeting in Toronto (1998) and

Edinburgh (2002), 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), the SGA/IAGOD International Congress on Mineral deposits (1999). IMA has also participated to the ECROFI symposia, EMU schools and to International Gemmological Conferences (Annex-Table 1). Most of the Com./WG. were involved in the preparation of the Edinburgh General meeting (Annex - Table 2).

Three Com./WG., the Com. on Applied Mineralogy, the Com. on ore Mineralogy and the WG. on Mineral Inclusions regularly organized short courses and workshops (Annex-Table 5). This complements activities otherwise organized within large Congress.

Summary of activities of Com./WG are reported below:

1- The IMA Commission on Applied Mineralogy was strongly involved in sponsoring session and symposia together with ICAM. The members of 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. The intent of this agreement is to promote the co-sponsoring of ICAM with CAM sessions at IMA meetings, and CAM with ICAM sessions at ICAM meetings.

2- The IMA Commission on Classification of Minerals (CCM) has prepared three fundamental books published in the end of 2000 (see annex, Table 7):

- "Strunz Mineralogical Tables" by Hugo Strunz and Ernest H.

The problems of classification of minerals were in the focus of symposium "Mineralogical Crystallography" in the frame of ECM-20 in Krakow (August 2001). Mineral group classification is displayed on the Website as well as discussion related to this topics.

3- The IMA Commission on Crystal growth of Minerals (CCGM) has organized sessions in International Meetings. Officers and title of the commission changed during the general Meeting in Edinburgh.

4- The IMA Commission on Gem Minerals was involved in several meetings. Two books are nearly finished: One on Raman Spectra Data Base, and a second one on minerals, comprising GEM minerals. A successful mineral spectroscopy site is available from George Rossman at <http://minerals.gps.caltech.edu/>.

5- The IMA Commission on Museums was involved in several Meetings and prepared a field excursion in the frame of the General Meeting in Edinburgh.

6- The IMA Commission on History and Teaching was mostly involved in participating to EMU schools and to Erasmus/Socrates programme to harmonize curriculum development in mineral sciences. However, the project to write the history of IMA has shown little progress.

7- The IMA Commission on New Minerals and Mineral Names (CNMMN) plays an essential role within IMA. CNMMN collaborates with CCM to discuss a proposal on criteria to establish mineral groups.

A summary of new minerals approved by the Commission in 2000 was compiled by Dr Joel Grice and Dr Giovanni Ferraris. This was published in several journals and is available on IMA Website.

CNMMN is particularly active to review the names and definition of mineral species. Each month, members of the Commission, currently representing 30 countries, received detailed summaries of proposed new minerals received by the Chairman. Also on a monthly basis, the Vice-Chairman circulates proposals to change the status or name of existing minerals by members' vote. The Secretary is responsible for circulating discussion papers on Commission procedures and on nomenclature for mineral groups, as well as monitoring the activities of Commission subcommittees.

In the period of this report, the following data apply:

2000: 41 new minerals were approved from 52 proposals (3 were rejected and 8 suspended)

2001: To date, 57 proposals have been circulated for voting. This has resulted in 39 being approved, 3 suspended and 2 rejected, with votes on 13 outstanding.

Arising from the Commission's meeting at M&M4 in Melbourne, a proposal to recommend the use of only the English language for mineral names (i.e., removal of diacritical marks from names) was circulated to members by the Chairman. Although most voted in favor, the Chairman considered the result was not sufficiently conclusive to change the status quo.

8- *The IMA Commission on Ore Mineralogy (COM)* participated or sponsored sessions within International congress. COM is famous for the organisation of regular Short Courses associated with excursions and publications of related books.

9- *The IMA Working Group on Cosmic Mineralogy* has very little activities during the last four years. The commission was voted to be suppressed. A new group will propose a project for 2003.

10- *The IMA Working Group on Inclusions in Minerals (WGIM)* regularly participated to International meetings or Conferences devoted to researches on Inclusions, to seminars and workshops. The WGIM sponsored a special issue of *Lithos*, in honor of Prof. J Touret, edited by Prof E.A.J. Burke, former Chairmen of the Group.

Members of the Group took an active part in the 16th biennial conference on Current Research on Fluid Inclusions (ECROFI XVI) held in Porto, Portugal from 2 to 4 May 2001.

The WG has been very active in China over the past year under the leadership of the vice-Chairman Prof Li Zhaolin. Prof Zhaolin reports that the WG co-sponsored a successful National Conference on Fluid Inclusions and Geo-Fluids, in Wuhan in October, 2000, with 42 contributions published in a special issue of *Acta Petrologica Sinica*. A series of invited seminars were delivered by Dr I-Ming Chou of the USGS at Zhongshan University and Guangzhou Institute of Geochemistry, Chinese Academy of Science from 29 May to 5 June, 2002. The seminars, organised by Prof Li Zhaolin under the auspices of the WG, attracted some 100 attendees and covered such topics as; hydrothermal experiments in diamond anvil cells, methane clathrates, ice stability fields and metal-sulphate-hydrate minerals.

11- *The IMA Working Group on Mineral Equilibria (WGME)* has prepared two special issues of Journals following symposia organized by the WGME during International Meetings.

12- *The IMA Working Group on Organic Minerals (WGOM)* published a circular to the WG. members in Newsletter 2001. Newsletter becomes an effective tool to exchange information within the Working Group. The WGOM regularly organize session in International Meetings and workshop. A list of names of Organic Minerals is under preparation.

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 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. The promotion of intercourse among mineralogists of all nations by organizing large meetings (see Annex - table 1) 2004: M&M 5, Paris, France; preparation of the 19th GM: 2006, Japan), by participating in the organization of large meeting organized 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 5). 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 organizations in 2005 is being pursued.

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

18.3 The maintenance of up-to-date list of National Representatives and delegates. The list of National Delegates will be reviewed in 2003, and lists of members of Commissions and Working Groups established. 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..

18.4 Increasing 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 Min Socs 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 has 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 www.dst.unipi.it/ima for details).

18.2. On the level of the Commissions/Working groups

Projects of Com./WG. are summarized in the different tables reported in annex. In particular, the list of sessions sponsored by IMA or by Com./WG. during the EGS-AGU-EUG Joint Assembly in Nice, and the Florence IGC Congress is indicated in tables 3 and 4. 7 sessions are sponsored in Nice, and 21 in Florence.

Few Business Meetings were held by Com./WG. between the two General Meetings in 1998 and 2002. The deficiency of communication during the four year interval should be solved in the future by more regular implication of IMA in International meetings.

In few cases, the specific activity of Com./WG. will be better defined, that is between CNMMN and CCM, between CAM and ICAM, and between WGIM and ECROFI. In addition, a special effort will be done to provide atlas, glossary on minerals, and books with mineralogical tables which may be used by the International community, notably editors.

Officers of Com./WG. are aware of the importance of a Website. Home page for the different Com./WG. are in variable state. Some are used as a useful tool whereas some other has no information, or present very old data. Most of the Com./WG. have planned to develop their Website to deliver regular information to their members, but also to exchange information with people from other branch of sciences. All the Webpage from the different Com./WG. will be linked to the IMA Website.

In addition, it is recommended to develop milestones and internal circulars through electronic messages within Com./WG..

Detailed activities relevant to organization 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.

1- The Commission on Applied Mineralogy (CAM)

1.1. Plan activities

Following the orientation of the IMA Council the proposition to hold a CAM business meeting at every two years, at the IMA General Meetings and at the ICAM Meetings (International Congress on Applied Mineralogy) was accepted.

(a) Suggestions for CAM-sponsored sessions at the next quadrennial IMA meeting in Japan.

After a long discussion with the delegates and Anthony Naldrett, IMA President and the first Chairman of CAM, it was decided that CAM must strongly support the sessions related to their initial objectives:

- Process mineralogy (probably co-sponsored by COM-IMA);
- Applied mineralogy of ceramics, cements and new materials;
- Environmental mineralogy and health;
- Analytical techniques;
- Mineral surfaces and nanoparticles.

CAM must also co-sponsor the following sessions of COM and CGM:

- Ore Mineralogy / Platinum-group minerals (COM);
- Gem materials (CGM),

(b)Office Elections:

Despite the office elections must be done 3 months in the advance to the IMA meetings, none indication were previously submitted to the IMA Council. Special care must be taken in the future to avoid similar situation. A previous discussion regarding the new Office must be taken at the ICAM meetings and the names must be submitted at least 3 months in advance to the IMA meetings.

©Suggestion on how to improve the CAM activities:

It was proposed that CAM would sponsor Conferences, Workshops and Short Courses in any topic of Applied Mineralogy. Sponsoring proposals must be submitted through the National Delegates to the members of CAM Offices.

(d)Home page for CAM

A home page for CAM with a regular update containing information regarding: general information, executive office, national delegates, minutes of business meetings and activities reports is under construction by Henrique Kahn at the site <http://www.appliedmineralogy.org/private/cam.htm>, since the IMA web site is presenting some access difficulties (<http://www.dst.unipi.it/ima>).

1.2. Plans for the year 2003

- 1) 8th International Congress on Applied Mineralogy, to be held in Aguas de Lindoia, Brazil, from 19 to 22 September of 2004. CAM will be co-sponsoring this congress organized by the International Council for Applied Mineralogy - ICAM
- 2) web site with history of CAM, past activities and office members under the site <http://www.appliedmineralogy.org/>
- 3) Together with ICAM support the “Applied Mineralogy On Line” web site, establishing a mailing list to improve the communication lines between the of all the individuals and organizations somehow dealing with applied mineralogy - <http://www.appliedmineralogy.org/>
- 4) Sponsor a 5th short course on “Applied Mineralogy of Mineral Raw Materials” to be held at University of Sao Paulo, Brazil, and organized by Henrique Kahn.
- 5) Search and contacts for new short courses to be sponsored by CAM
- 6) Review of the CAM National Delegate List. Contact the active delegates and trying to replace those ones that are retired or really not properly interested on helping CAM to improve their activities worldwide.
- 7) With the help of IMA board try to include a Applied Mineralogy Session on the 32nd International Geological Congress, to be held in Florence, Italy from 20 to 28 of August, 2004

In summary, *critical milestones to be achieved next year*

- 1) A review of CAM National Delegate List
- 2) CAM web site
- 3) Mailing list of individuals and organizations somehow dealing with applied mineralogy
- 4) Short course on “Applied Mineralogy of Mineral Raw Materials”

1.3. Communication plans

- 1) Mailing list of individuals and organizations somehow dealing with applied mineralogy
- 2) Divulgate of the 8th International Congress on Applied Mineralogy – first circular
- 3) CAM web site

1.4) Potential funding sources outside IUGS:

- a) 8th International Congress on Applied Mineralogy
- Brazilian funding agencies and mining companies (to be prospected)
- b) Web site and mailing list will be supported by Mining and Petroleum Engineering Dept. of the Polytechnic School of the University of Sao Paulo, as well as some revenue from the “Applied Mineralogy of Mineral Raw Materials” short course.

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

(a) Contact National representatives and/or National Organisations 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.

(b) 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.

© 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.

(d) In order to improve the communications Internet facilities will be used such as a Yahoo discussion group and web site.

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

(f) 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- The Commission on Gem Materials (CGM)

The commission plans to look at the problem of mineral nomenclature together with IMA. Ending of the glossary project is planned.

5- The Commission on Museum

Besides the organization of a large Meeting on Museums in Paris, activity of the Commission will be focused on centres on Topographical (Regional) Collections. Suggestions have been made to the newly elected Chairman of CM – Lydie Touret – to write a letter to IMA and apply for money for the next M&M – conference.

Fixed report date are requested to the general secretary

CTMS - After contacting Alexander Hoelzel the data base will be given part by part to Antony Kampf to put these data on the website of CM. The acronyms should be consistent. Therefore a list of acronyms should be spread to the coworkers (A. Kampf, K. Schuermann, C. Stanley and H.A. Stalder (replaced by N. Meisser) using A. Hoelzels data base. Marco Pasero will be asked by A. Kampf to make links to the IMA website.

H.A. Stalder has been asked for a written final report of CTMS –Subcommission. The CM is most grateful to H.A. Stalder for his immense CTMS work. During M&M5 at Paris the Subcommission should be reorganized.

Proposals have been made by F. Wall to arrange a website for petrological collections. This topic should be sponsored at the M&M5 conference at Paris 2004 and should be also a topic on the CM business meeting at M&M5.

6- The IMA Commission on New Minerals and Mineral Names (CNMMN)

The CNMMN has decided in its Edinburgh September 2002 meetings, at the suggestion of the incoming chairman, to change its monthly communication stream (from officers to members, and back) from airmail to electronic media.

The CNMMN will publish in 2003 a PDF file (through the CNMMN web site) called “IMA list of minerals approved, discredited and redefined by the CNMMN”. This list will be freely available to all persons interested in it. The list contains the 3500 or so mineral names.

The CNMMN will handle in 2003 about 60 new-mineral proposals (52 proposals in 2002, 70 in 2001, 50 in the first nine months of 2002) in batches of on average five proposals per months. There will also be proposals for changes in mineralogical nomenclature (5 – 10 per year), and several subcommittees are working on the nomenclature of mineral groups (astrophyllites, eudialytes, pyrochlores, sulphosalts, unnamed minerals); several of these subcommittees will publish their final results in 2003. New subcommittees will be started in 2003 for tourmalines, epidotes, and amphiboles.

An IMA-CNMMN Internet web site which has 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.

The sections of the IMA-CNMMN web site open to the whole mineralogical community and the general public will be used for giving news and results of the CNMMN: the “IMA list of CNMMN decisions”, the new minerals approved yearly (without their names to protect the intellectual rights of the authors), reviews of nomenclature decisions and reports.

The IMA-CNMMN web site is assembled and maintained by the incoming chairman; it has been opened on 18 September 2002, and the members-only section is being tested in October 2002. The URL of the web site is: www.geo.vu.nl/users/ima-cnmmn. The web site is hosted by the Faculty of Earth and Life Sciences of the Vrije Universiteit Amsterdam, without any charge of costs to the CNMMN.

Because of the switch from the monthly air-mailed distribution of copied paper versions of new-mineral proposals to electronic PDF files via the CNMMN web site, the chairman no longer has a need for a budget for secretarial help and mailing costs. Other, smaller administrative costs for the three CNMMN officers are being taken care of by their respective employers.

7- The IMA Commission on Ore Mineralogy (COM)

The collections of polished ore mineral specimens in museums and mineralogical institutions should be listed in digital form. This work has been started at the University of Pretoria and a proper format will be prepared for

other collections as well. Digital cataloguing of the Paul Ramdohr collection in Heidelberg has also apparently been initiated. The aim is to collect a worldwide data bank of existing specimens.

The web pages of COM are one of the most urgent tasks of COM; this task will be taken care of by Kari Kojonen and Nigel Cook. In the matter of a "Virtual Ore Mineralogy Course" Jeff Vaughan informed the meeting that he (Minerals Council of Australia) has been preparing one that could be used as a model for the COM web pages.

The state of the art of systematic classification of selenides, tellurides and sulphosalts follow on the priority list. The persons responsible for organizing working groups are: 1) selenides Werner Paar, 2) tellurides Kari Kojonen, 3) sulphosalts Nigel Cook & Yves Moelo. The results should be published as soon as possible e.g. on the COM web pages, or as an annotated report in a mineralogical journal. The telluride minerals are very complex and may require some additional years of work.

COM officers recommended that the commission should consider taking a more active role in ensuring quality control of reported ore mineralogical data in the future. The guidelines and quality criteria (counting statistics, detection limits) of reporting of mineral analyses should be prepared by COM and sent to various parties, e.g. Commission of New Mineral Names. For instance the microprobe standards should be similar as the minerals to be analysed. The meeting agreed that it would be worthwhile to draw up sets of guidelines for publishing of microprobe data, which could be circulated to journal editors.

A list of suggestions for standardized abbreviations of ore minerals will be prepared by the officers of COM for distribution and discussion among COM members. It is planned to submit the result to IMA CNMMN.

COM should also start collecting a database of digital images of ore minerals. This project should include standardization of the colour values and illumination sources.

8- The Commission on Physics of Minerals

The commission plans to be particularly active in International Meetings. This commission will be re-organized in 2003.

9- The IMA Working Group on Astromineralogy

In September 2002, after the Edinburgh General Meeting, which voted to the end of the Working Group on Cosmic Mineralogy, C. Klein contacted Franz Rietmaier to become a Chair of a new working group on Astromineralogy. There is still a great interest in this general area of mineralogy. The proposal is 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. The redirected working group would also be better linked to current and future space missions initiated by the various Space Agencies around the world. Missions to the small bodies in the solar system, that is asteroids and comets, to the terrestrial planets and Giant Planet satellites, as well as earth-orbiting observatories, offer new challenges to apply mineralogy in new and exciting environments. New looks at old minerals will become increasingly fundable. It is an intellectually and educationally satisfying experience to explain 'our' minerals and their context to 'infrared Astronomers' who can detect the minerals around other stars but find it hard to appreciate the context of their identifications. There is the challenge working to find novel solutions to mineral formation.

The Astromineralogy Working Group should be part of an integration process that includes Meteor Science. Interest of new groups of researchers who will benefit from IMA contacts and who will contribute venues of 'non-traditional' mineralogy should be engaged to IMA meetings. There will be a threshold to overcome, in part because they often deal with the transitions from highly disordered amorphous solids to minerals and are therefore not keyed to think 'minerals'. The IMA community will benefit from expanding the horizon to new venues in mineralogy. New members active in 'Astromineralogy' have been selected.

10- The IMA Working Group on Inclusions in Minerals (WGIM)

As the chairmen changed in september, new organization will occur within the working group. Planned activities comprise the co-sponsoring of the forthcoming meeting on Inclusions in Minerals and Geofluids to be held in mid-October in Nanjing University, and the participation to the next biennial meeting of European Current Research on Inclusions in Minerals to be held at the the University of Budapest from 4-9 June 2003.

11- The IMA Working Group on Mineral Equilibria (WGME)

The WG plans to participate to International Congress and to organize a Website.

12- The IMA Working Group on Organic Mineral (WGOM)

The WGOM will regularly organize session in International Meetings as well as workshop and symposia. The annual circular will be improved by adding references, revision of organic mineral names and characteristics, and reports on activities. The list of valid and rejected names will be completed. Relationships and common projects with museums will increase through common exhibitions. The possibilities to create a Journal on Amber research is studied.

13- The IMA Committee on Computer and technological Applications (CCTA)

A group of nine is created which will proposed a project to be considered in Nice by the Council. In Edinburgh, the group acknowledged the inactivity of the WGDCA over the past four years and so agreed with the vote of the Business Meeting to end it. However, the group recognized that information technology services are still required for the international mineralogical community which can be provided by a Committee of IMA. The group proposes new guidelines to get a useful Website. 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.

Liaison between the new group will be provided initially by Dr. Bertrand Devouard of Blaise-Pascal University in Clermont-Ferrand, France.

The group added that the current IMA Website will continue and be maintained by Dr. Marco Pasero of the University of Pisa, at least until such time as the new group has been ratified by IMA."

18.3 Participation of IMA to International Congress

18.3.1 Florence International Geological Congress.

IMA is in the process of organizing a symposium comprising 10 1/2 day sessions during the 32nd IUGS Congress (IGC), in Florence (15-22 August 2004). (see table 4). A Business meeting will be held during this congress.

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

Information were provided by Vice-President T. Yamanaka. Previous information were received for the Council Meeting in Strasbourg, 2001.

Invitation: The Commission of Mineralogical Science of Science Council of Japan.

Organizer: National Committee for Mineralogy, Science Council of Japan. The Organizing Committee is headed by IMA 2nd Vice President Prof. Takamitsu Yamanaka who forwarded preliminary information for the Council meeting in Strasbourg (2001), and then during the First Council Meeting and First Business Meeting in Edinburgh (sept. 2002).

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

Venue for Conference: International Conference Center Kobe

Date and Period: 6 days July 23-28, 2006

Expected number of participants: 800 (oversee 350~400 domestic 350~400)

Registration fee: 400 US\$;

It covers the following events/services:

- Opening ceremony, attractions of the traditional Japanese music and dance
- Reception and Welcome party
- Conference Excursion to Osaka castle and other spots
- Invited speakers (registration fee waived for about 10 persons)
- Meals (lunch or dinner) for the committee meetings.

Accommodation:

Accommodation is not so difficult in the city.

There are many hotels with a reasonable room charge ca 70~100US\$.

City service offers the rooms with a cheap charge.

Scientific Program (see details in the appendix):

International and Local Program Committee
IMA Commissions and Working Groups

Financial support

Donation from the grant-in-aid of Science Council of Japan and Kobe City

Congress Secretariat:

Department of earth and Space Sciences
Graduate School of Science
Osaka University
1-1 Machikaneyama
Toyonaka
Osaka 560-0043
Japan

Contact: Prof Takamitsu Yamanaka

Phone/Fax: 81-6-6850-5793

e-mail: b61400@center.osaka-u.ac.jp

Organizing Committee: T. Yamanaka (Chairman), E. Ohtani, M. Matsui, K. Fujino,

M. Akaogi, S. Matsubara, A. Tsuchiyama, M. Arima, T. Yoshida, T. Uurabe

,A.Imai, T. Murakami, H.Sato, K.Tomeoka, T. Iitaya., M. Nedachi

Location information

access 10 min from JR Kobe Station by subway

75 min from Kansai International Airport by limousine buss

80 min from Osaka International Airport by limousine buss

Sight spots

within one hour distance from Kobe by train: Kyoto, Nara, Himeji, Osaka

within two hour distance: Ise, Hiroshima, Nagoya.

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 organized 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 organization, as well as from private companies.

Organization 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 organization. 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 organized, 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 organizational 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 organizational 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 organizations 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).

Organization 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 Weiszborg: 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: weiszborg@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 special budget details in connection with our planned application for a Category II grant of ICSU (through IUGS) will be communicated later as part of the Draft Application to be submitted to IUGS by Mid-February 2002.

The annual budget of IMA is strongly constrained by the low income on one side and by consistent fixed expenses for Commission and Working Group activities. It appears that the general Meeting in Edinburgh 2002 will be run independently of IUGS funding (see below)

20. REPORTER'S NAME AND POSITION IN THE ORGANIZATION

NAME: **Maryse Ohnenstetter**

POSITION: **SECRETARY**

DATE: **December 24, 2002 - Complements on the 13th of January 2003.**

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