

Minutes of Business Meeting of IAGA WG I.2

Jiahua Hotel, Beijing

25 October 2008

Attendance ~300 people.

Chairs: A. Junge, Y. Ogawa

Meeting opened by A. Junge, WG chair

1. MTnet. The chair reported that Xavier Garcia had completed his term as webmaster of MTnet and that MTnet was now being operated by Alan Jones and Colin Hogg at the Dublin Institute for Advanced Studies. The WG expressed its gratitude for the work of the webmasters.

2. Treasurer's Report. I. Ferguson presented the Treasurer's report for the period from the previous workshop to the present one. A copy of the report is attached as Appendix A. The main function of the Treasurer was to chair the Financial Support Committee. The details of the operation of this committee were reviewed. A total amount of \$USD46,000 was available for allocation by the committee. Applications for support were received from 146 people and a total of 74 people were allocated support. The majority of those supported were students or postdocs/junior scientists. The WG expressed its gratitude to those institutions and companies that provided financial support for use by the Financial Support Committee and for other aspects of the workshop. There were no questions from the WG concerning the Treasurer's Report.

The chair thanked the WG Committee Fundraising Coordinator G. Jiracek for his great efforts in fund raising.

3. Change of Committee Members

(a) Chair of WG. The chair explained that it is normal historical procedure for the co-chair to become the next chair but reminded the WG that this is a decision made by the WG as a whole. He indicated that the present WG committee supported Y. Ogawa becoming the next chair and called for additional nominations. No additional nominations were received. Y. Ogawa was therefore elected by acclamation as the new WG chair.

Y. Ogawa assumed the chair of the meeting and thanked Andreas Junge for his contributions as chair of the WG.

(b) Co-chair of WG. Y. Ogawa indicated that the WG committee nomination for the new WG co-chair was I. Ferguson. He called for additional nominations from the WG. No additional nominations were received so I. Ferguson was elected as the new co-chair by acclamation.

(c) Other Committee Members. The chair reviewed the present membership of the committee and noted that there were presently five representatives from Europe but none from Africa and the Middle East. Noting this distribution he indicated that the WG nominations to replace retiring committee members: A. Junge, G. Jirack, T. Harinarayana, H. Bibby, and T. Korja were: Ute Weckman (Germany), Graham Heinson (Australasia), K. Veeraswamy (India), G. Egbert (United States), and Gad El-Qady (Africa/Middle East). Y. Ogawa called for additional nominations

from the WG. No additional nominations were received so the slate of nominees from the WG committee was elected by acclamation.

The chair noted that the committee will also include four observers: A. Junge (Past chair), Zhao Guoze (Past LOC chair), El Said Ahmed (20 EMIW chair), and G. Jiracek (Fundraising advisor).

The chair thanked the retiring committee members for their contributions. He answered a question as to who would take on the Treasurer's duties by explaining that the members taking on the duties of Treasurer, Publications Coordinator, and Fundraising Coordinator would be elected at the WG Committee meeting on 28th October 2008.

4. 2012 Workshop Proposals. Only one proposal had been received for hosting the 2012 21st EMIW. Graham Heinson presented a proposal for the workshop to be held in Darwin Australia in July 2012. He fielded questions from the WG on subjects including funding possibilities, suitability of the venue and pre- and post-conference tours. The WG voted to approve the proposal.

5. Progress towards the 2010 EMIW. Gad El-Qady presented an update on the plans for the 20th EMIW in Egypt. The organizers decided to move the workshop from the initially planned location in a suburb of Cairo to an Oasis located 80 km from Cairo. It was expected that the smaller population at the new location would lead to greater interaction among workshop participants outside set events. An update was provided on accommodation options, poster arrangements, anticipated registration costs, and other aspects of the workshop. G. El-Qady answered several questions from the WG on topics including the state of preparation of the main auditorium and transport from Cairo.

6. IAGA 2009. László Szarka provided an update on IAGA 2009 in Sopron Hungary including information on travel options and on the sessions that may be of greatest interest to the WG. Some copies of the second circular for the event were distributed.

7. Publications. The review papers for the present workshop will be published again in Surveys in Geophysics with T. Korja and Zhao Guoze as Special Editors. The journal has already contacted the WG concerning this issue.

The WG Committee will not coordinate any Special Volume for contributed papers but individuals are encouraged to coordinate Special Volumes on focused topics. One such Special Volume is being coordinated by Michel Chouteau on Applied Magnetotellurics. It will be Special Volume of Applied Geophysics and will consist of papers of finished studies concerning the application of magnetotellurics in mineral exploration, environmental studies, and groundwater studies.

8. Other Issues. Oliver Ritter expressed concern over the necessity of submitting an extended abstract in order to present an oral paper at the workshop. The chair indicated the matter would be discussed at the next WG committee meeting.

The meeting was adjourned.

Appendix A. Treasurer's Report : Electromagnetic Induction in the Earth Working Group 19th International Workshop at Beijing, China

A. WG Bank Account

The function of the USD Electromagnetic Induction Working Group (WG) bank account in Winnipeg, Canada (CIBC Account 02-07810 Branch Transit 00807) is to retain funds of the Working Group between workshops and to facilitate the transfer of funds between funding agencies and the LOC.

The WG account balance in July 2007 was \$USD275.89. This balance decreases at \$6/month due to bank services charges but these charges have been minimized by allowing the account to become classified as "inactive" for some of the period between workshops.

In August 2007 an amount of €1174.80 was transferred from the El Vendrell LOC to the WG account as return payment for funded financial support applicants who did not attend the workshop. After bank charges \$USD1524.40 was deposited into the WG account. Subsequently, \$USD1600 was transferred to the Beijing LOC. With bank charges and transfer fees the balance of the WG account at July 31st was \$USD119.40.

B. Summary report on El Vendrell EMI Workshop

A report on the El Vendrell EMI workshop was prepared as a requirement of one of the funding agencies. In order to maximize the exposure of the workshop two forms of the report were prepared. Firstly a conference report was prepared for publication in EOS and appeared in 2007 (Ferguson, I., Slater, L., Queralt, P. and Ledo, J., 2007. Electromagnetic induction in the Earth, *Eos Trans. AGU*, **88**(36), 351.). Secondly, a slightly longer report, containing more information on the statistics of the workshop, was prepared for IAGA and provided to IAGA in May 2007. Preparation of the reports was coordinated by Ian Ferguson, Lee Slater, Pilar Queralt and Juanjo Ledo with helpful input from several others.

C. Beijing EMI Workshop Financial Support Committee

This section of the Treasurer's report concerns the Beijing EMI Financial Support Committee's work and is presented on behalf of the Committee.

1. Committee Structure

For the Beijing EMI workshop the Financial Support Committee comprised:

- I. Ferguson, WG Treasurer (Chair)
- A. Junge, WG Chair
- Y. Ogawa, WG Vice-Chair
- G. Jiracek, WG Industry/NSF Liaison
- A. Marcuello, Co-chair of LOC of 18th EMI Workshop
- Zhao Guoze, Chair of LOC of 19th EMI Workshop
- Chen Xiaobin, Member, LOC of 19th EMI Workshop responsible for Financial Support. (non-voting)
- Gad El-Qady, Chair of LOC of 20th EMI Workshop

The committee also received valuable support and input from Cai Juntao. The committee commenced its work in late April 2008.

2. Application Procedure

The web application form for Financial Support for the workshop was developed by the LOC, based on the El Vendrell EMI form, and in collaboration with the chair of the Financial

Support Committee. The form provided all of the information necessary to the committee and there were only a small number of problems resulting from applicants being uncertain as to the meaning of questions. Applications closed on April 15th 2008.

3. Sources of Financial Support Funding

The Beijing EMI Financial Support Committee had an amount of \$USD46,000 to distribute. Table 1 and Figure 1 show the sources of the funding for Financial Support for the workshop. The largest source of the funding was the USA National Science Foundation (NSF). The continued NSF support for the EMI Workshops is extremely valuable as it enables a much more global attendance at the workshops than would otherwise be possible. Additional large contributions to the Financial Support funds for the workshop came from the Chinese government and other Chinese sources, from international companies, and from IAGA. The Financial Support is very grateful for each and every one of these contributions as even the smaller contributions coming from some companies enable one or two additional people to attend the meeting.

Table 1. Sources of Funds for Financial Support

	Source	Amount (USD)	Percentage
1	USA National Science Foundation	\$20,000	43.5%
2	Chinese Ministry, National Enterprise, Universities, Institutions	\$13,580	29.5%
3	International companies	\$9,320	20.3%
4	Funds remaining from El Vendrell workshop	\$1,600	3.5%
5	IAGA	\$1,500	3.3%
	Total	\$46,000	

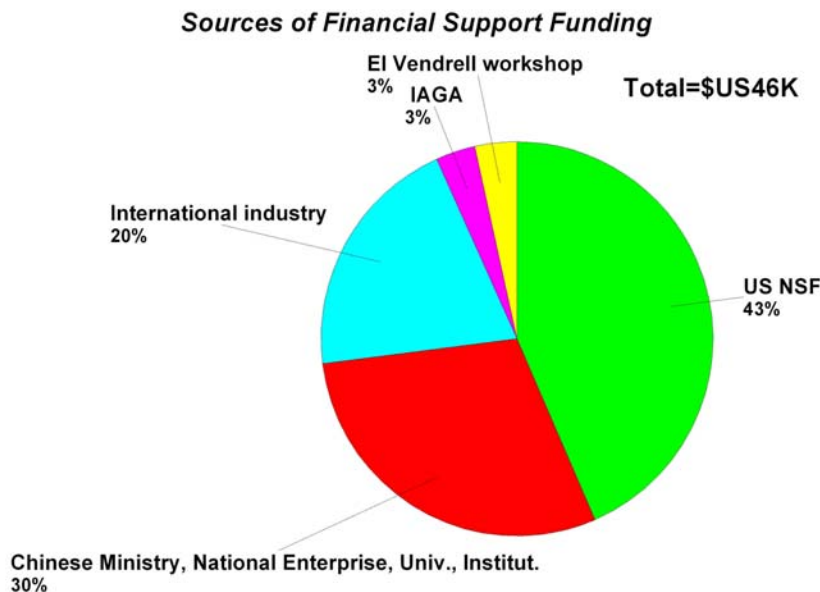


Figure 1. Sources of Financial Support Funding for Beijing EM Induction Workshop.

Note that a number of agencies, companies, and organizations have contributed to other aspects of the workshop and that these contributions represent indirect financial support for the participants. Table 2 lists companies and organizations that have contributed to the workshop,

both to the Financial Support and to other aspects. The logos of the organizations appear at the end of this report. A brief summary of the financial support, listing the companies and organizations who have contributed to financial support, has been prepared for the MTNET web pages. George Jiracek's contribution to the fund raising effort should be recognized as his efforts resulted in the largest component of the funds. He received considerable assistance from Zhao Guoze, G. El-Qady, and others.

Table 2. Sponsoring Organizations for 19th International EMI Workshop

Companies	
1	China National Petroleum Corporation
2	China Petroleum and Chemical Corporation
3	BGP, Non-seismic Survey, CNPC
4	BOST (Beijing Ouhualian Science & Technology Ltd.)
5	Phoenix Geophysics Ltd. Canada
6	KMS Technologies - KJT Enterprises Inc
7	Metronix
8	Irkutsk Electroprospecting Company
9	Beijing Orangelamp Navigation Technology Development Co., Ltd.
10	Orient Beta (Beijing) Science and Technology Company Limited
11	TIERRA TECNICA LTD.
12	Sonardyne International Ltd.
13	Scientific Production Enterprise Of Geophysical Equipment □ LOOCH □
14	Schlumberg EMI Technology Center
15	Geometrics
16	Zonge Engineering and Research Organization, Inc.
17	Geonics Limited
18	Chinook Geoconsulting, Inc.
Organizations /Institutions	
1	China Earthquake Administration (CEA)
2	Chinese Geophysical Society (CGS)
3	Institute of Geology, CEA
4	Geo-Electromagnetic Committee, CGS
5	National Nature Science Foundation of China
6	USA National Science Foundation
7	International Association of Geomagnetism and Aeronomy
8	China Geological Survey
9	China National Administration of Coal Geology
10	Yangtze University
11	China University of Geosciences (Beijing)
12	Jilin University
13	Shenyang Engineering Scientific Research and Design Institute
14	Chengdu University of Technology
15	Central South University
16	Research Institution of Petroleum Exploration & Development, CNPC
17	Institute of Geology and Geophysics, Chinese Academy of Sciences
18	Guilin University of Technology
19	Institute of Geophysical and Geochemical Exploration, CAGS
20	Tongji University
21	Institute of Earthquake Science, CEA
22	Earthquake Administration of Beijing Municipality
23	China University of Geosciences (Wuhan)
24	Exploration & Production Dept, SINOPEC
25	Xi'an Qiangyuan Geophysical Research Institute
26	Anhui Exploration Technical Academy

4. Applications Received

For this workshop we received applications from a total of 146 applicants and the total request for funds is \$USD181,307. This compares with 113 applicants for \$USD140K at the last workshop. On average the amount requested is around \$USD1,000 per applicant, similar to the value for previous workshops. We received applications for Financial Support from: 99 students, 27 postdocs or junior scientists (within 6 years of their previous degree), and 20 senior and retired scientists (Table 3, Figure 2). Several of these applicants withdrew their application or declined the funding granted, for example, because they received alternate funds or were unable to attend the meeting.

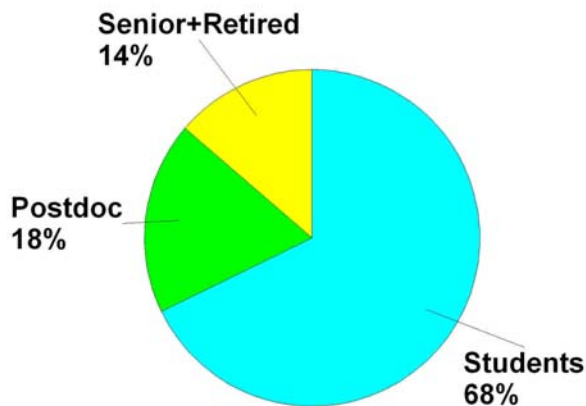
Table 3. Summary of applications

Category	Number of applicants	Amount requested (USD)
Students	99	\$118,057 ¹
Postdocs/Junior	27	\$35,490
Scientists	17	\$24,780
Retired	3	\$2,980
Total	146	\$181,307

1. Some applicants failed to indicated the requested amount so true total is a little higher.

Number of Applications

Total People=146



Support Requested

Total=\$USD181K

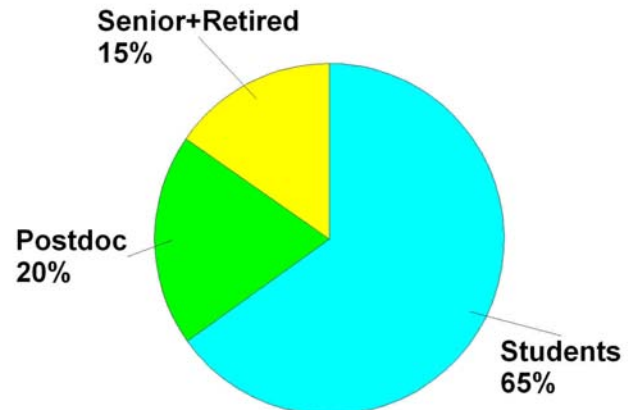


Figure 2. Applications for financial support to attend Beijing EM Workshop.

5. Allocation Process for Financial Support

The requested funding support exceeded the available funds by a factor of about four. The funding decisions were again very difficult and it was impossible to fund all requests. For the initial round of funding the committee had \$USD39,000 available for allocation and subsequently another \$USD7,000 became available for a second round of allocations. The initial funding allocations were made using the following criteria:

1. No late applications were considered.

2. Only those applicants who were authors or significant co-authors of presentations (poster or oral) could be supported.
3. Funding could not be provided for those applicants who received funding for previous workshops.
4. Travel support was limited to 65% of the requested travel component of support. General limits were also applied for different geographical areas to ensure equity.
5. Subsistence funding set at a maximum of \$USD117 for all applicants and registration was set at the early-registration amounts of \$USD150 for international students, \$USD110 for Chinese students, \$USD250 for other international delegates and \$USD215 for other Chinese delegates.
6. Funding was limited to one person from each category (student/postdoc/senior) per institution.

Even with these guidelines the amount required greatly exceeded the \$USD39,000 available for the first round of allocations. The committee had to introduce additional criteria:

7. Only students and postdocs could be funded.
8. For institutions that had received significant funding at previous workshops funding was limited to a maximum of \$USD400 for students and \$USD400 for postdocs. The results of this round of allocations were announced to the applicants on the 9th and 10th July 2008.

A second round of allocations became possible as a result of the availability of additional financial support and because several applicants from the initial round had declined their funding. These funds were allocated in a manner designed to help as many people as possible and consisted of allocations to: a second student/postdoc from each Chinese institution; an additional student/postdoc allocation to institutions with a larger number of applicants; an allocation to the one retired applicant (eligible after criteria 1-3 above); and an allocation to a small number of senior applicants (eligible under 1-3) who indicated that a very small amount of seed funding could be used to leverage the necessary external funds to attend the workshop. A small number of individual cases were also considered, for example, the requirement to fund a reviewer and consideration of a previously-funded applicant now representing a country that has not previously received funding support. Results of this round of allocations were announced to the applicants on 25th to 27th August.

As a result of several applicants declining funding, and in consideration of uncertainty in exchange rates, arrival of funds, and unforeseen issues, not quite all of the available funding was allocated. As of 21st October 2008 a total of \$USD42,606.50 was allocated. Remaining funds should be carried forward for use in funding support at the 20th EMI induction workshop in Egypt in 2012.

The funding allocation decisions were made by the committee as a whole and involved many e-mail messages. The decisions were difficult and several points regarding the decisions should be made. Firstly, the committee acknowledge that there are many people, particularly, senior scientists who deserve funding but it is just unable to support them. Secondly, the funding is biased towards students and junior scientists in order to be consistent with the nature of the NSF funding that is received. Thirdly, the committee is not in an appropriate position to assess the true needs of the applicants and it considers the information provided on the applications at face value. Finally, funds are distributed in a broad manner so as to maximize the opportunity for involvement in an EMI workshop by as many countries, institutions, groups and individuals as possible. The committee is not in an appropriate position to judge the scientific merit of individual EM researchers, individual groups or individual EM institutions. For this workshop the time between the close of applications and the announcement of results was longer than at previous workshops. This was largely a result of uncertainty about the levels of available funding and the complexity of the decisions that were needed. The delay was accommodated by extending the early registration period for the financial support applicants.

6. Distribution of Financial Support

The distribution of funds to the different groups (as at 21st October 2008) is shown in Table 4 and Figure 3. A total of 74 people will receive some funding, although many of these are receiving a relatively modest amount. The average amount provided to individuals in all groups (comprising the students, the postdocs, and senior/retired/review people) is \$USD575. Funding is being provided to applicants from 22 different countries.

Table 4. Summary of allocated funds

Category	Number of applicants	Amount funded (USD)
Students	55	\$30,456.50
Postdocs/Junior	14	\$9,700
Scientists, retired scientists, and reviewer	5	\$2,450
Total	74	\$42,606.50

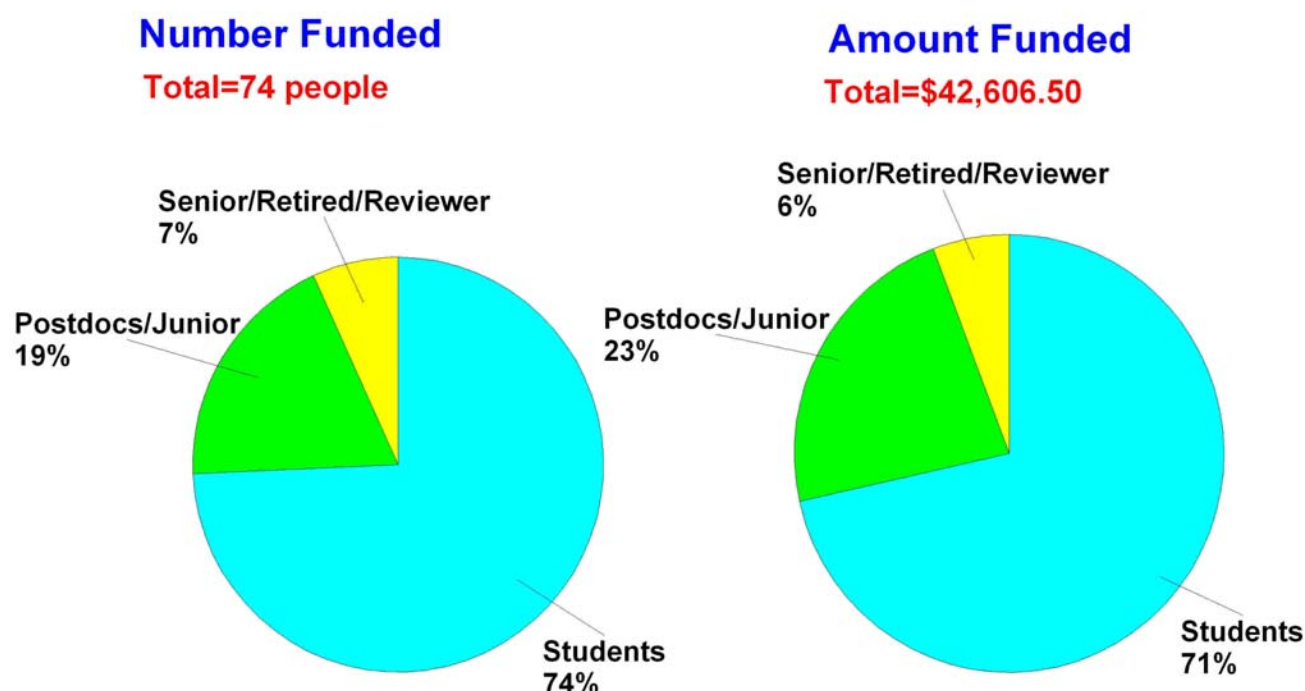


Figure 3. Recipients of funding for Beijing EM Workshop (as of 21st October 2008).

7. Provision of Financial Support

The allocated funding is provided to the applicants in two ways. The applicants can use the funding to pay their registration and accommodation costs directly. This option reduces the amount of cash that needs to be handled during the registration procedure and helps minimize costs associated with multiple currency exchanges. The remaining funds will be provided to applicants in the form of cash (in RMB) at the workshop registration. Except for extreme situations, funding is not provided ahead of the workshop.

8. Recommendations Concerning Financial Support at Future Workshops

The following are some recommendations for future Financial Support Committee operations from the perspective of the chair of the committee and are essentially the same as for the El Vendrell workshop.

1. The WG continues to work hard on raising funds for financial support from government, industry, and other agencies.
2. Establish and approve structure and membership of the Financial Support Committee at the preceding workshop.
3. Confirm as much funding as possible, as early as possible, in order to allow the announcement of Financial Support results well prior to the workshop. If the data of the announcement is after the end of the early registration period permit the Financial support applicants to pay at early registration rates.
4. Determine the Financial Support requirements for reviewers at an early date in order that the Financial Support Committee can include this information in its decisions.
5. The format of the application form for Financial Support for the workshop was very effective.
6. Establish the optimal procedures for distributing the funds as early as possible in the committee deliberations (*i.e.* the optimal choice or combination of local currency, local currency cheques, US dollars, US dollar cheques, US dollar travellers cheques, and/or contribution to registration fees).
7. The application for IUGG funding for the Beijing workshop was submitted after the deadline and was therefore unsuccessful. Applications for IUGG support for all 2008 conference had to be submitted before 31 October 2007 and to be submitted through the constituent associations. Therefore an application for IUGG support for the 20th EMI workshop should be submitted through IAGA by October 2009 (or by any revision of the IUGG deadline).
8. The WG may wish to again consider using/declining the IAGA funding that is made available for a Young Scientist Award for the best paper presented by a young scientist attending an IAGA-sponsored topical meeting for attendance at the next Assembly.

21st October 2008



Ian Ferguson
Treasurer, WG I.2, IAGA,
Chair, WG I.2 Financial Support Committee

The 19th International Electromagnetic Induction Workshop, Beijing 2008, is sponsored by:



中国地震局
China Earthquake Administration



沈阳工程勘察设计院
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中石化油田开发事业部
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