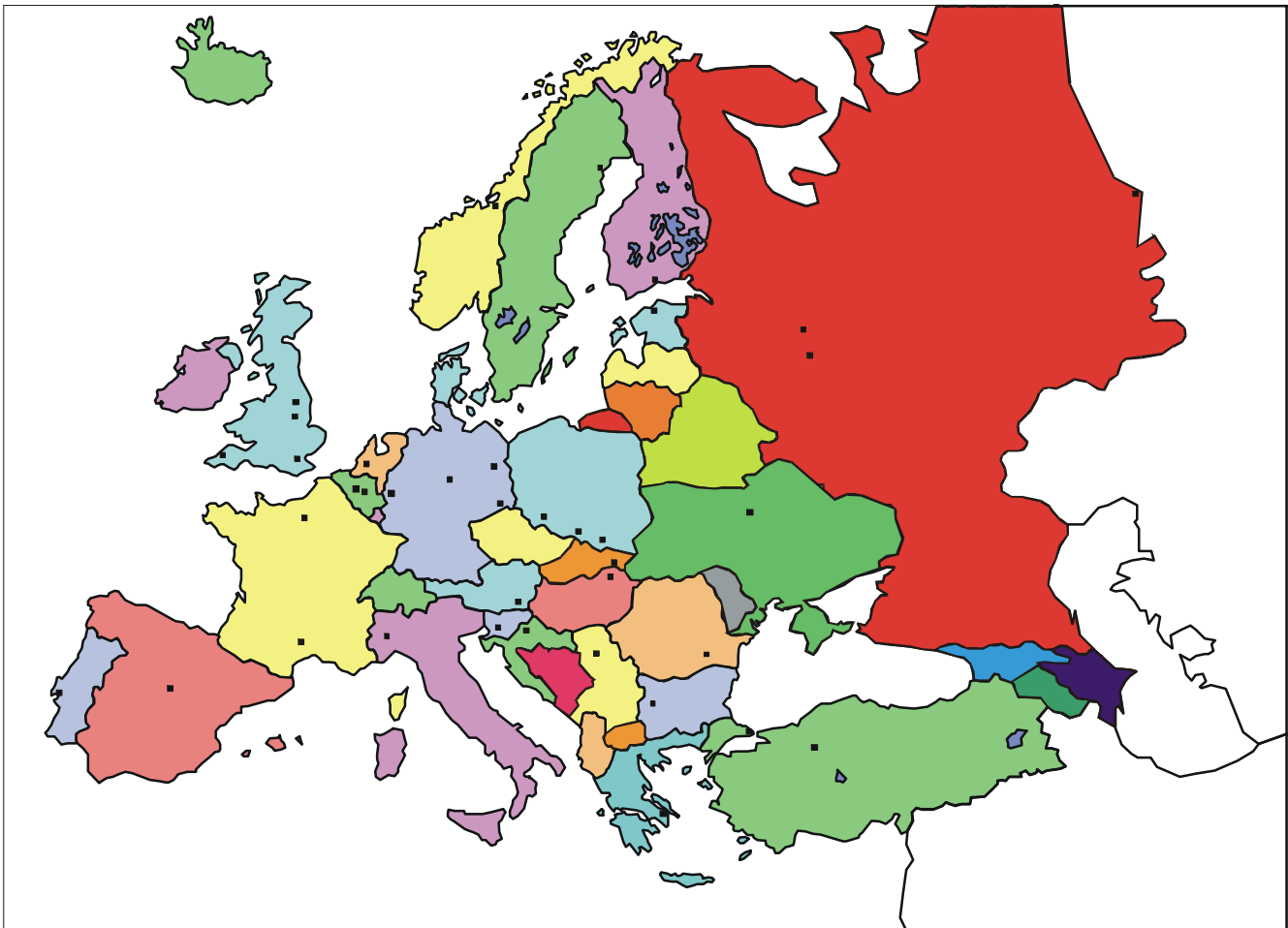


NEWSLETTER

**SOCIETY OF MINING PROFESSORS**



**SOCIETÄT DER BERGBAUKUNDE**



Number 21

December 2002



This is the last newsletter of the year, and is written mainly to record the minutes of the Madrid meeting which was held in Madrid from the 1<sup>st</sup> to the 4<sup>th</sup> December. The meeting was held at this time, despite it being a busy period in university life, to coincide with the celebrations for the 225<sup>th</sup> anniversary of the Escuela Tecnica Superior de Ingenieros de Minas, Madrid.

In addition to the Anniversary celebrations the other reason for holding the meeting at that time was that there was also a meeting of the Asociación Iberoamericana de Enseñanza Superior de la Minería (AISEMIN) – an association of Spanish speaking mining universities. Madrid, by holding these two meetings together hoped that the two associations, AISEMIN and the Society, would be able to meet and possibly work together in the future.

However, the timing was such that there was difficulty for members in attending this meeting. This was in fact a good meeting though the attendance by members of the Society was small. The minutes of the meeting follow and it will be seen that there was good interaction between the two societies.

The next meeting is to be the Annual General and will be held this year on the Island of Milos in Greece from May 18<sup>th</sup> to 21<sup>st</sup> 2003. This is a very important meeting and I would urge all members to attend. Details of the programme are once again included in this Newsletter, but members can keep in touch with the progress of the planning for the meeting by regularly checking the web site at <http://www.heliotopos.net/conf/minprof>

Members will note that the Society plans to prepare a declaration with regard to the importance to sustainability and mining education and research. This is most important and if any members have input they should let the Secretary General know what they would like included. It is most important that the declaration be kept as short and explicit as possible so it will probably not be possible to include all suggestions that may be received, but the more we get the more likely it is that we can produce a really worthwhile declaration.

In addition, arising from the work done at the meeting in Petrosani earlier this year, there will be a number of topics discussed in detail at this meeting. Again, having as many members present as possible will be vital to our taking good decisions. In particular it is intended to discuss and agree a new basic curriculum for the formation of a mining engineer. The one we agreed before is 10 years old now and is certainly in need of revision and review. Members should receive, before the Milos meeting, a new proposal for the base curriculum in the next Newsletter.

However, the work of preparing this is currently under way, and if any of you have recently changed (since 1997) what is taught to mining engineers at your university, please send the details of the curriculum and brief syllabuses for each subject taught to the Secretary General so that he can update his entry for your university. If that information is already available on your website, it will already have been recovered and you do not need to send anything. However, many universities do not put such information on the web accessible to outsiders. If this is the case for you, please send it to me.

There will be special rates at the following conference – Sustainable Development Indicators in the Mineral Industries (SDIMI 2003) – for those who attend the Society's meeting before it. This is a very important meeting too. Up to now, in discussions of sustainability, the need for education and research appear to have all but been ignored. This is clearly an oversight that needs to be corrected. This conference, held in Greece during the period that Greece holds the presidency of the European Union, is an excellent opportunity to redress this omission. The more of the membership of the Society

that attend the SDIMI meeting the more likely we are to be able to make our voices heard to correct this oversight. A brief look at the tentative programme shows that there are certainly papers being delivered by 5 of our members, and there may be more. They need all our support.

The SDIMI 2003 conference also has a web site if you wish to find out more about this conference. Also, registration for both this and the Society's meeting can be done on the web sites given here. The SDIMI website is

<http://www.heliotopos.net/conf/sdimi2003/>

So let us make our next annual general meeting one at which we get a lot of work done. We need to issue the declaration, agree a new base curriculum and ensure that education and research are included in future discussions of sustainability. If we can achieve these aims it will be a worthwhile meeting indeed.

Society of Mining Professors  
**MINUTES OF THE  
ORDINARY GENERAL MEETING  
OF  
THE SOCIETY OF MINING PROFESSORS/  
SOCIETÄT DER BERGBAUKUNDE**

**AT THE**

**ESCUELA TECNICA SUPERIOR DE  
INGENIEROS DE MINAS, MADRID.**

December 1 to 4, 2002

The delegates arrived on the weekend of the Saturday 30<sup>th</sup> November/Sunday 1<sup>st</sup> December.

For those who arrived early there was a Sunday trip to Toledo which is reported to have been very interesting.

On Monday the morning started with registration in the main atrium at the School of Mines.

Attendees were Professors; G. Badino, C. Buhrow, T.S. Golosinski, M.E. Karmis, R. Matikainen, C. Nieman-Delius, C. Pelley, F. Pla Ortiz de Urbina, P. Ramirez Oyanguren, J.J. de Ruiter, C. T. Shaw.

(Once again there was a good international representation, even though the attendance was low, with representatives from Canada, Finland, German, Italy, the Netherlands, Spain, the UK and the USA).

**Day 1 Morning**

The opening ceremony was in fact the Inauguration of the 225<sup>th</sup> Anniversary of the School of Mines of Madrid. There were talks (in Spanish) on 5000 Years of Mining in Spain, The History of the Madrid School of Mines and The Present and Future of Teaching in the Schools of Mines in Spain. These were interesting talks, and made one realize that the Spanish have one of the longest histories of mining and mining education in the world.

This opening ceremony was followed by a visit to the old library where there were bibliographic exhibitions of the collected mining texts of over 200 years. From there the delegates moved next door to the building of the Spanish Geological Survey, where there was a geological cartographic exhibition set out. The delegates then had lunch at a nearby hotel.

**Day 1 Afternoon**

After lunch there was a joint meeting with the Asociación Iberoamericana de Enseñanza Superior de la Minera (AISEMIN). This was a session on Academic Mobility, Experiences and Suggestions.

The afternoon session was mainly in Spanish too but simultaneous translation had been set up for this session and that worked very well. There were a series of short talks (10 minutes each) by delegates from AISEMIN and the Society. This was followed by a useful discussion session, though most of the discussion dealt with the conditions in South America.

The session started with a series of 10 minute presentations as follows:

First was Prof. Golosinski who gave a short presentation on the work at Missouri Rolla on distance learning using the web. This is working well at present and for example, Prof. Golosinski did deliver a



Societät der Bergbaukunde

course to students of the Royal Scholl of Mines in London, while he was in Rolla and they were in London. This worked extremely well. However, it was pointed out that in no way was this to be considered as a substitute for campus based universities, as the experience of university is much more than the lectures alone. However, it is a way of arranging for excellence to be widely available.

This was followed by Hans de Ruiter giving a talk on the current state of the European Mining Course and the European Minerals Engineering course. These are developing well and there is a new course starting up - ----- .

The third paper was by Paul --- on Academic Mobility in Guyaquil, Ecuador. These exchanges were mainly among Spanish speaking universities.

Monica Martiz Lizan – Venezuela

Elizabeth --- Mexico

Joseph – Politechnico de Manreza

Ricardo Peru

ETSI Madrid

Luis Mantilla, Almaden

After that there was some discussion on the matters mentioned during the presentations. At this time too the Secretary General gave AISEMIN members a brief history of the Society. There was quite a lot of interest from the members of AISEMIN and the Society is likely to get a number of applications for membership. These will be processed in the normal way, but it is the opinion of the Secretary General that the Society does need to have a more visible presence in South America and that the coming applications should be treated sympathetically.

There was then a dinner Hosted jointly by the Madrid School of Mines and the Spanish Explosives Company. This was an excellent event and after dinner we were entertained by the Madrid Mining School Minstrels, who were very good indeed.

**Day 2 – Morning**

The morning of day 2 started with a round table discussion on Academic Mobility and Support Mechanisms. This was again a joint program with AISEMIN and dealt largely with the problems of that organization. It is clear that the South American Universities in particular are becoming much more serious about international contacts and wish to find mechanisms to help in this drive. At present they are largely looking towards other Spanish speaking universities, but no doubt in time this will broaden to include the rest of the mining universities.

There was a coffee break at 11.00 and after that the President of the Society and Prof. Golosinski, as representatives of the Society, participated in a 'Monograph meeting' titled 'Schools of Mining: Strategies and Agreements'. This was meant to be attended only by '...registered representatives, responsible for University management,...' Arising from this meeting two proposals were made to the Society which will be dealt with fully in the later minute on the Society's ordinary general meeting.

In parallel with the latter meeting, the Secretary General and the other members of the Society were shown around the mining museum of the school and the geological museum, attached to the Geo-



logical Survey of Spain in the building next door. Both were very good museums and worth visiting.

There was then a buffet lunch.

Afternoon – Day 2

This was the time for the business meeting of the Society. Apologies for absence were received from Professors Z. Agioutantis, J. Antoniak, B. Barchanski, B. Brady, C. Buhrow (who had had to leave Madrid before this meeting), S. Durucan, G.B. Fettweis, J. Galvin, H. Gerhardt, M. Hardygora, A. Khokriakov, W. Knissel, F. Kovacs, U. Kumar, E. Lechner, K-H, Lux, P.N. Martens, P.F.X. Mousset-Jones, K. Nielsen, R. Pine, D. Potts, S. Priest, Z. Somosvari, R.D. Stoll, S. Vujec, B. White, F.L. Wilke, U. Yamaguchi, J. Yamotomi

Those present at this meeting were Professors: G. Badino, T.S. Golosinski, M.E. Karmis, R. Matikainen, C. Nieman-Delius, C. Pelley, F. Pla Ortiz de Urbina, P. Ramirez Oyanguren, J.J. de Ruitter, C. T. Shaw.

At the start of the meeting Prof Ramirez reported back from the meeting of representatives responsible for university management, held that morning, which Profs Karmis and Golosinski had also attended. At that meeting, the representatives of AISEMIN had asked some questions of the Society. They asked if we could discuss:

- Assisting them in seeking industry funding for at least two mining chairs at Universities in South America.
- Holding joint meetings with AISEMIN once every two years.

The President of the Society, Prof. Karmis, then formally opened the meeting.

Profs Ramirez and Shaw agreed to record the apologies received from those members who had given their apologies to either of them. These are shown in the list above.

The minutes of the Petrosani meeting had been circulated in Newsletter 20 and were accepted as a correct record of the meeting.

Matters arising from the minutes:

- The next meeting of the Society was discussed. It is of course being held in a conference centre in Milos, Greece. There has been mining on the island of Milos since 4000 BC, and the Island continues to have a mining industry, mainly industrial minerals activity, aside from the rest of the island being given over to tourism. In addition the two days after the meeting of the Society, there will be held another conference, Sustainable Development Indicators in the Mineral Industries, (SDIMI). The website for the conference centre and for the latter conference is at: [www.heliotopos.net/conf/sdimi2003/](http://www.heliotopos.net/conf/sdimi2003/). The Society's meeting will be held from the 18<sup>th</sup> to the 21<sup>st</sup> May 2003, and will be followed by the SDIMI meeting from the 21<sup>st</sup> to the 23<sup>rd</sup> May. Society members will get a special break on the conference fees for SDIMI if they wish to register for both conferences.
- Delegates were reminded that at the time of the meeting in Milos, Greece would have the presidency of EU. This would therefore be a good venue and time to make the Society more visible. In addition, Euromines would also like to work with the Society and the planners were already including Dr. Hebestreit in the development of the plans for the meeting.
- A post conference mining tour in Greece for people who have the time is possible, and Prof Karmis will organize this if there is enough interest shown. This would probably

mean another week away from the office, but could be very interesting and include visits, both cultural and mining to places such as Laurium, the Greek bauxite mines, Delphi etc.

- The following Annual General Meeting of the Society is planned for Freiberg in 2004, though an exact date is not yet available.
- The delegates were reminded that the Meeting in 2005 was planned to be in Turkey, organized by Prof. Pasamehmetoglu, but involving as many as possible of the Turkish Mining Universities.

Further discussion followed on the planning for the Milos meeting. At the meeting in Petrosani it had been decided that the Society needed to develop a 'Declaration of Milos'. Development of this declaration was well under way but much more effort was needed. Members were reminded of the 1999 Düsseldorf meeting which had arisen out of the meeting in Carrara, which had not been much of a success. Since then though, all mining companies have signed a declaration the 'Global initiative'. In most countries the scientific academies have also signed. Therefore, now there may be an opportunity to declare the need for sustained education, research, etc. together with the CIMM, SME, IMMM, and other learned societies. Shaun Stewart of Rio Tinto and the AIME are willing to review a draft of such a declaration.

Prof. Pelley indicated that the regulators and industry should not be involved at all, but Prof. Karmis pointed out that it would be our declaration, but getting some feedback in advance would do no harm.

Prof. Badino again reminded us of the history of the Düsseldorf initiative. He indicated he would be prepared to prepare a first draft of a declaration and send that to the President. This would cover:

- The human need for mineral supplies
- That minerals are natural resources
- That sustainable development can be achieved with different tools and in different ways.

Prof. Niemann-Delius stressed that we should concentrate on education and research. Prof. Karmis agreed pointing out that any industry, which does not have sustainable education and research, is a dying industry. Prof. Shaw agreed further and indicated that Industry ought to be forcing sustainable education, by insisting that it is needed and funding it as needed to maintain excellence. Prof. Karmis pointed out that it was vitally important that we declare that sustainable development cannot be seriously obtained in any way without the inclusion of education and research in any attempt to achieve it. Therefore, not only those of us in education should sign the declaration but the entire scientific community should also sign.

There was a lot of further discussion on this matter and it ended with the following procedure being decided:

- o The initial draft declaration would be developed by Prof. Badino in the next few weeks.
- o This draft would be sent to professors Pelley, Golosinski and Shaw who would edit and amend it and ensure that it was in publishable English. Prof. Fettweis would also be kept informed of the various drafts. Prof. Karmis would be included in the loops all the time of course.
- o The final declaration would then be developed as soon as possible and definitely before the end of January.
- o Prof. Karmis would then be responsible for getting it signed also by the SME, IMMM, CIMM, SAImm & etc.

Prof. Shaw then reported on the progress of the investigation into the curricula of the mining universities. He was in the process of a major update of the data and from this he felt that a new look at the base curriculum which had been agreed some 9 years ago by the Society. For example it is probable that any curriculum should now include



sustainability as a subject, which was not in the current base curriculum. Prof. Shaw thought that the Milos participants should see the new proposed base curriculum before the meeting. In line with this Prof. Karmis will keep Prof. Shaw informed of potential participants.

Prof. Badino indicated to Prof. Karmis that he will be able to present a paper on the cultural sustainability of marble mining at the meeting also.

Other matters arising were:

- We need to remind the team at Freiberg that it is vital that they send at least one delegate to report to the meeting in Milos on the preparations for the 2004 meeting.
- Last meeting the need to recruit younger members had been highlighted and it was suggested that younger teaching staff – potential professors – should be invited to our meetings and be allowed to attend all except that they would not be able to attend the business meeting of the Society
- We should also encourage students to attend the meetings.
- Prof. Niemann-Delius pointed out that in Germany most of the professors are now young. However, they were busy and the recent trend to hold meetings in term time made their timetables the problem in attending.
- Prof. Karmis also pointed out that there is sometimes a problem that universities did not reimburse the cost of the meetings if the attendee was not presenting a paper. Profs would probably not attend in this case. This should not be a problem for Milos as there was the following conference at which they could justify attendance.

The meeting then went on to discuss the two proposals from the AISEMIN meeting in the morning.

With regard to the suggestion for a joint meeting every two years it was pointed out that it was not realistic for the Society as it would mean that they would have to go to South America once every four years. The Society's constitution at present states that the Annual General Meeting has to be in Europe. This would therefore preclude the trips to South America. Secondly, the Society had established that its language of operation is English. This was due to the large number of languages of the members, but that for the vast majority of them their second language was English. In addition, English is now, even if not officially, the international technical language. Prof. Shaw pointed out that it was hoped that from the contacts at this meeting we would soon have more members of the Society from universities in South America. It was hoped that one or mostly two members per country would be able to join. This would mean that there should be members of AISEMIN at each of our meetings who could report what their association was doing and could report back to AISEMIN on the Society meetings. The Secretary General will send those who showed an interest the next Society Newsletter. Prof. Golosinski suggested, and it was agreed, that members of AISEMIN should be invited to Freiberg, and that they should receive invitations to our meetings every two years. This will be reconfirmed (or not) at the Annual General Meeting in May.

Prof. Badino suggested that we should try to coincide our meetings with other symposia, as was being done in Milos, as this would make it easier for members to find the funds and time to attend.

On the second AISEMIN point, the assistance in raising funds from Industry for professorships in South America, it was pointed out that we have enough trouble trying to raise such funds for ourselves! Prof. Karmis agreed that we can see the need, but felt that it would be very difficult. Prof. Shaw suggested that the best we could do was to suggest that the South American universities contact Industry themselves, but to inform them that the members of the Society, if approached, would no doubt supply contacts and advise which compa-

nies might be worth approaching. However, as a Society we could not do this we would leave it up to the individual members.

The Secretary General then reported that he had been working on the databases of mining universities and their courses and had been able to update a lot from their web sites. This left him with the problem of those universities that are not on the web, or do not post the detail of their courses on the web, or those that do post their courses but do not allow general access to that information. In addition there are of course the universities where he is unable to manage the language (he can read curricula in English, French, German and Spanish only). However, he will continue working and hopes to have a much improved database for the next meeting

The Secretary General also asked that members who are not receiving the Mineral Resources Engineering journal (and have paid their society dues) let him know that this is so, so that he can speak to the publishers and correct the problem.

At this point, there being no other matters to discuss the President declared the meeting closed.

Evening – day 2

There was a reception for the members of the Society and of AISEMIN with the Lord Mayor of Madrid in the Madrid city hall. In the light of the fact that there was a demonstration on at the city hall, the members were bussed to the back door and entered that way to avoid having to fight their way through the crowd. This went off very well, the city hall is a very impressive building.

Day 3 Morning

This started with the Official Inaugural Ceremony celebrating both the Santa Barbara festivities and the 225<sup>th</sup> Anniversary Commemoration of the Founding of the School of Mines in Almaden.

Following that ceremony there was the traditional Santa Barbara Mass. Both these events were held in the school's main hall.

After that there was a reception given by the College of Mining Engineers of the Centre, held once again in the central atrium of the School.

In the evening there was a Recital de Cantes Mineros. This was a number of mining songs from a group of miners from the Linares area of Spain and there was also special flamenco dancing. This really was the end of the meeting proper. There was a trip to Almaden planned for the Friday, but few of the Society delegates were able to stay for that event.

Epilogue

It is hoped that there will be a very good attendance at the next meeting of the Society, which as has been mentioned is in Greece on the island of Milos - Agenda below.

The Society meeting, as mentioned several times previously, will be followed immediately by the meeting:

### **Sustainable Development Indicators in the Mineral Industries**

**(SDIMI 2003)**

21-23 May 2003

Milos Conference Center - George Eliopoulos

You will note on your registration form for the Society meeting that you get a special discount on the registration fee for this meeting if you register for both at the same time. It is important that the need for a good education is recognised in any discussion of sustainability



and so it is important that as many of the members as possible should attend the SDIMI2003 meeting following our annual general.

## **14<sup>th</sup> Annual General Meeting, Society of Mining Professors May 18-21, 2003, Milos, Greece**

*Jointly hosted by Virginia Tech (USA), University of Aachen (Germany), Technical University of Crete (Greece), National Technical University of Athens (Greece) and the Silver & Baryte Ores Mining Company (Greece)*

### **Final Program**

#### **Sunday, May 18**

17:00-19:00: Registration  
19:00-21:00: Reception

#### **Monday, May 19**

09:00-09:30: Welcome (Prof. M. Karmis, *Society President, Virginia Tech*; Mr. E. Vidalis, *CEO of Silver & Baryte Ores Mining Co*)  
09:30-10:00: Mineral Resources/Mining in Greece (Mr. V. Nikolettopoulos, *Grecian Magnesite SA and Secretary General of the Greek Mining Enterprises Association*)  
10:00-10:30: Greek Minerals Education (Prof. G. Panagiotou, *National Technical University of Athens*)  
10:30-11:00: Break (and Society Photograph)  
11:00-13:00: Session 1 - Educational Issues (Discussion Leaders: Profs. C. T. Shaw, *Royal School of Mines-Imperial College-London* and H. de Ruiter, *Technical University of Delft*)  
Topics include curriculum and minimum standards, survey of mining schools, student recruitment, distance learning, etc.  
13:00-14:00: Lunch  
14:00-15:30: Session 2: Global issues (Discussion Leaders: Profs. E. Kuzmin and L. Puchkov, *Moscow Mining State University*)  
Topics include global mineral production trends, role of the construction materials and aggregates, mineral production and the education/research infrastructure  
15:30-16:00: Break  
16:00-16:30: Mining History of Milos (Mr. G. Xydous, *Ret. Mining Engineer, Silver & Baryte Ores Mining Co*)  
16:30-18:30: Guided Tour of the Milos Mining Museum  
19:30-22:00: Dinner at Plaka

#### **Tuesday, May 20**

9:00-11:00: Session 3: Research Opportunities (Discussion Leaders: Profs. L. Wilke, *Technical University of Berlin*; J. Palarski, *Technical University of Silesia, Gliwice* and P.N. Martens, *Aachen University*)  
Topics include research opportunities within EU, prospects for new member states, industry support, global trends, etc.  
11:00-11:30: Break  
11:30-13:00: Business Meeting (Chaired by Prof. T. C. Shaw, *Royal School of Mines-Imperial College-London*)  
Agenda items include Constitution revisions, transfer of the Presidency to Professor C. Drebenstedt, selection of General Meeting location for 2006, etc.  
13:00-14:00: Lunch  
14:00-14:30: S&B Mining Operations in Milos (Mr. A. Kefalas, *Milos Site Manager, Silver & Baryte Ores Mining Co*)  
14:30-17:00: S&B Mine and Plant Tours  
19:30-22:00: Farewell Dinner (with Entertainment)

#### **Wednesday, May 21**

09:00-15:00: Mining and Geological Tour of Milos

### **Ladies Program**

#### **Sunday, May 18**

17:00-19:00: Registration  
19:00-21:00: Reception

#### **Monday, May 19**

9:00-9:30: Welcome (Prof. M. Karmis, *Society President, Virginia Tech*; Mr. E. Vidalis, *CEO of Silver & Baryte Ores Mining Co*)  
9:30-10:00: Mineral Resources/Mining in Greece (Mr. V. Nikolettopoulos, *Grecian Magnesite SA and Secretary General of the Greek Mining Enterprises Association*)  
10:00-16:30: Visit to Paleochori beach (possibility of swimming) and lunch  
16:30-18:30: Guided Tour of the Milos Mining Museum  
19:30-22:00: Dinner at Plaka

#### **Tuesday, May 20**

09:30-14:30: Visit to Plaka village (catacombs, museum) and lunch  
14:30-18:30: Free time and shopping  
19:30-22:00: Farewell Dinner (with Entertainment)

#### **Wednesday, May 21**

09:00-15:00: Mining and Geological Tour of Milos.

