

IMA Commission on Applied Mineralogy (CAM)

Annual Report to IUGS for the Year 2004

IMA-Committee on Applied Mineralogy
Agenda for CAM Business Meeting
Held at ICAM-2004 in the Paesaggio room at the Valence Hotel
Aguas de Lindoia, Brazil
September 21, 2004

1. Introductions of attendees at this business meeting, review of national delegates, and the preparation of a list of all attendees with addresses, e-mails, phone numbers, etc.
2. Brief history of IMA-CAM (and its interaction with ICAM)

About 1979, a group of applied mineralogists, mostly at MINTEK in South Africa approached IMA asking for a commission on applied mineralogy and were turned down. In response, the South Africans organized the International Council for Applied Mineralogy (ICAM) and held its first, very successful, ICAM meeting in Johannesburg.

Although IMA officials suggested at the ICAM business meeting at Johannesburg that ICAM become a commission within IMA, the officers of ICAM elected to continue ICAM as a separate entity.

CAM was organized about the time of the first ICAM meeting and held its first sessions at the IMA-Stanford, United States meeting in 1986. Two sessions on applied mineralogy were sponsored by CAM at the IMA-Stanford meeting.

IMA-Beijing, China-1990 - CAM sponsored 7 sessions

It was decided at ICAM-Perth, Australia-1993 that ICAM meetings would be held every 4 years one half way between IMA quadrennial meetings

IMA-Pisa, Italy-1994 - CAM sponsored 2 sessions

IMA-Toronto, Canada-1998 - CAM sponsored 2 sessions

IMA-Edinburg, Scotland-2002 - CAM organized portions of 3 session (see details below).

IMA-Kobe, Japan-2006 - CAM has suggested co-sponsorship of 8 sessions (see details below).

3. CAM sponsored one session (and >45 posters) on Applied Mineralogy at the quadrennial International Congress Meeting in Rio de Janeiro, Brazil in 2000
Dick Hagni

4. CAM helped organize three sessions for IMA-Scotland-2002 on New Materials, Gem materials, and cathodoluminescence microscopy, but all three were combined with other sessions in the final organization of the meeting.

Henrique Kahn

5. Sessions suggested to organizers of IMA-Kobe, Japan-2006 meeting
 - A. Suggested CAM co-sponsorship of the following 6 planned sessions:
 - Mineral (session 25) - microbe interaction and biomineralization
 - Environmental mineralogy (session 27)
 - Clays and zeolites: Natural and synthetic materials (session 28)
 - Ceramics with advanced physico-chemical properties (session 31)
 - Natural and artificial gem materials (session 35)
 - Nano minerals/materials in earth and planetary sciences (session 40)
 - B. CAM also recommended an additional session on: Quantitative Mineralogy
 - C. CAM also agreed with IMA-COM to co-sponsor a proposed session on: Applied Ore Mineralogy

The IMA organizational committee meeting in August, 2004 will determine eventual list of sessions selected and committee sponsorship.

6. CAM helped sponsor a short course taught by Dogan Paktunc at CANMET in Ottawa, Canada at the annual Canadian Mineral Processors (a division of the Canadian Institute of Mining) meeting in Ottawa, Canada on January 19, 2004 - co-sponsored by IMA-CAM and ICAM. The course covered an overview of the tools, techniques, methodologies and state-of-the-art developments in the use and application of mineralogy in metallurgical processing. Presentations included: 1) quantitative mineralogy, 2) mineral liberation, 3) microanalysis, 4) characterization of mineral surfaces, and 5) applications on hydrometallurgy, diamonds, uranium, and process tailings. The short course was sponsored by the Canadian Institute of Mining and co-sponsored by IMA-CAM and ICAM. The short course was highly successful, attracted about 60 participants from mining and metallurgical companies, universities and research organizations. Dogan has received very good feedback about the short course and has been invited to offer it again in alternate years.

Dogan Paktunc

7. Short course on Digital Image Analysis for Geologists was offered for IGC-Florence, Italy-2004. The short course was to be co-sponsored by CAM. The proposed course was to deal with the capabilities offered by image analysis in microscopy, image acquisition, filtering data, and quantification. This course and other short courses for IGC-Italy were cancelled shortly before the meeting.

Eric Pirard

8. Sponsored short course on "Applied Mineralogy of Mineral Raw Materials" organized by Henrique Kahn at University Sao Paulo (USP), May, 2004. This was the 6th in a series of annual short courses offered by Henrique at USP.

Henrique Kahn

9. CAM co-sponsored the ICAM-Brazil-2004 quadrennial meeting, short courses on Workshop Image Analysis on Applied Mineralogy and Quantitative X-ray Diffraction by Rietveld Method, and field trips to Carajas Fe, Mn, and Cu-Au Ore Deposits, Vale do Ribeira's Alkaline Province, Agate and Amethyst in Volcanic Rocks of Parana Basin and Brazilian Gemstones.

10. The CAM web site is shared with ICAM at "Applied Mineralogy on Line" web site:

<http://www.appliedmin.org>

The IMA-CAM web site is located at: <http://www.appliedmin.org/private/cam.htm>

The web site is maintained by Henrique Kahn. A review of the web site will be done after ICAM-2004.

Henrique Kahn

11. Preparation of mailing list of individuals interested in applied mineralogy. Send names and addresses to Henrique Kahn

12. Definition of Applied Mineralogy

Eric Pirard

13. Agreement of ICAM to meet quadrennially exactly between quadrennial IMA meetings and the conflict with the IMA recent decision to consider the quadrennial IGC meeting as the place for two-year commission and working group business meetings.

Henrique Kahn, secretary

Eric Pirard, vice chairman

Dick Hagni, chairman
