



**IMA 2010
BUDAPEST**

BONDS AND BRIDGES

**THE 20TH GENERAL MEETING OF THE
INTERNATIONAL MINERALOGICAL ASSOCIATION**

**21–27 August 2010
Budapest, Hungary**



IMA2010 CONFERENCE NEWS

The daily newspaper of the 20th General Meeting of the International Mineralogical Association

SUNDAY

IMA2010 welcome



When we in 1988 started to think about an IMA GM in Central Europe in 2010, we could hardly imagine that its motto “Bonds and Bridges” will once become reality.

Now we are at the start of the largest IMA General Meeting we ever had, with about 1700 participants from 74 countries all over the world, connected to one another by bonds of Mineral Sciences and their applications, as well as by the bridges of friendship. As promised since the beginning, IMA2010 will be a meeting for all generations, for all continents, organised on a human scale.

Even if IMA2010 is the first such conference organised in that region, the area is of long tradition for mineralogy. The ten countries, most of them connected by the blue Danube and the majestic Carpathians, have embarked on board of the IMA2010 Consortium, and have gathered their experience and strength in preparing a scientifically attractive and enjoyable conference.

We all are very happy to welcome you in this beautiful part of Europe, and encourage to build up together the current state of art of our science, and at the same time, to turn this event into a memorable experience.

On behalf of the IMA2010 Consortium:

Tamás G. Weiszburg (Hungary)

Chairman of the IMA2010 International Organising Committee

Today's plenary talk

From 14.30 to 15.20

Bob Hazen: Mineral Evolution: The co-evolving geo- and biospheres

Mineral sciences in our days deal with about 4400 mineral species. This number arises from varied physical, chemical and biological processes, which caused several well definable stages of mineral evolution.

After the initial evolutionary stages of the solar nebula, which resulted in about 250 mineral species now found in meteorites, Earth's petrological and geochemical processes predominated. By the end of the Eoarchean Era (~3.6 billion years ago) about 1500 different species may have evolved. By the end of the Archean Eon (~2.5 billion years ago) biological processes began to significantly affect Earth's near surface mineralogy. From the Proterozoic, the impact of O₂ was of central importance.

These stages and the primary mechanisms of the mineral evolution will be highlighted in the plenary talk of Bob Hazen (Carnegie Institution of Washington's Geophysical Laboratory and George Mason University, USA).



Today's Elements 5 talk

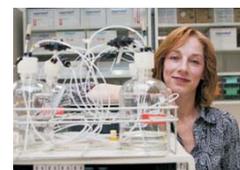
From 15.20 to 16.00

Éva Valsami-Jones: Phosphate mineral reactivity: from nano to global scales

Phosphorus is, biologically, an essential element, in other words it is needed for life on Earth to exist. Like all elements, it has a global cycle, from source to sink, which is heavily influenced by biological productivity.

Phosphate minerals (among them the most well-known is apatite) are both sources and sinks in the phosphorus cycle, so their dissolution and precipitation kinetics and the influence of organic species are of big importance. It is worth noting that in the phosphorus cycle the only primary source for this element is phosphate ore, which is a finite resource, with some predictions suggesting that there remains as little as 125 years worth of global reserves.

In today's Elements 5 talk Éva Valsami-Jones (Natural History Museum, UK) will not only give a summary of the different aspects of the global phosphorus cycle, but will also present results of nano-scale study made on apatite, which could potentially have global consequences.





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The first IMA Council meeting

Saturday (21. August) was a day filled with work for IMA Commissions and IMA Council, as 5 business meetings of the commissions (CNMNC, CGM, COM, CPM and CM) and the first IMA Council meeting was also held.



The IMA Council was held during Saturday afternoon.

Beyond IMA2010 - the organisers of the conference



Participants of the IMA2010 preparation meeting held at Budapest, in February 2009.



... "beyond the scenes" ...





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Pre-conference field trips arrived to Budapest

The conference region has many attractive mineralogical-petrological-geochemical sites, ore and other mineral deposits and also cultural sites (among them several UNESCO World Heritage Sites) to visit.

30 pre-, mid- and post-congress field trips were offered. Participants of the pre-conference field trips arrived to Budapest on 20 and 21 August.



Participants of AT 3 on the field.



Making observations during PL 2 fieldtrip.



Participants of AT 2 on the field.

Special exhibition at the Eötvös Museum of Natural History, Historical Mineral- and Rock Hall Three new minerals described from Hungary

Three new mineral species were approved from Hungary in the past few months; ammoniomagnesiovoltaite and chabazite-Mg in 2009 and klajite in 2010. Paying tribute to the IMA2010 congress, the Eötvös Museum of Natural History prepared a special exhibition displaying the new species.

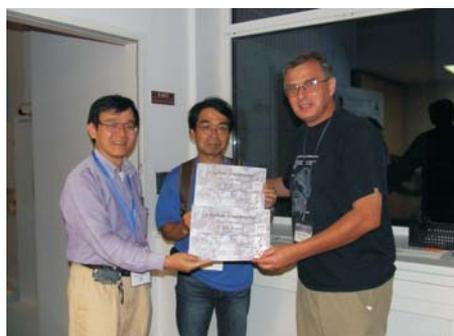
The Historical Mineral- and Rock Hall was established in 1774, and displays around 1000 species. Visitors are welcome during the conference.

Klajite, a copper-manganese arsenate, got its name after Sándor Klaj, a Hungarian mineral collector. The nicest and most interesting specimens of his collection are also shown at the special exhibition.



First donors of the Eötvös Museum of Natural History

After announcing that the IMA2010 participants can help the development of the collection of the museum by donating mineral specimens, dozens of e-mails arrived, proving that there can be found generous mineralogists all over the world.



Hiroshi Miyajima (Japan) gave among others 6 new minerals described from Japan (e.g.: itoigawaite), while Ritsuro Miyawaki (Japan) donated interesting Japanese specimens (e.g. kozoite-Nd, kimuraite-Y) (to the left).

Natalia Krasnova and Tomas Petrov (Russia) provided man-made malachite specimens (to the right).

Donations are on display in front of the Biology- and Palaeontology Exhibition (Southern Building).





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Leisure and pleasure at IMA2010

Social events (Sunday, 22 August)

14.00: Opening ceremony (incl. joint singing of the Hungarian folk song *Tavaszi szél vizet áraszt.*)

18.30: Icebreaker Party

Hungarian folksong

1. Ta - va - szí szél vi - zet - á - raszt, vi - rá - gom, vi - rá - gom,
 2. Hát én im - már kit vá - lasz - szak, vi - rá - gom, vi - rá - gom,
 5
 Min - den ma - dár tár - sat - vá - laszt, vi - rá - gom, vi - rá - gom.
 Te en - ge - met, én té - ge - det, vi - rá - gom, vi - rá - gom.

1.: *The spring wind makes the waters rise, my sweetheart, my sweetheart, Every bird searches for a partner, my sweetheart, my sweetheart.*
 2.: *And I, whom should I choose, my sweetheart, my sweetheart, I choose you, and you choose me, my sweetheart, my sweetheart.*

IMA 2010 Sport Schedule and deadlines

Duathlon Race: Tuesday, 24 August, 13.00 (registration deadline: 11.00, 24 August)

Running Race: Tuesday, 24 August, 19.00 (registration deadline: 14.00, 24 August)

Basketball Shooting Challenge: 23-26 August, 13.00-19.00 (continuous registration, no deadline)

Soccer/Football: Monday, 23 August and Thursday, 26 August, 19.00 (registration deadline: 14.00 on the day of the event).

Table Tennis: 23-26 August, 13.00-20.00 (continuous registration, no deadline).

Tennis: Tuesday, 24 August and Thursday, 26 August, 13.00-20.00 (registration deadline: 12.00 on the day of the event).

Minerals and wines

IMA Art Exhibition

A somewhat different mineral collection will be displayed at the IMA meeting: in front of the Plenary Hall, there will be an exhibition on wines named after minerals and rocks.

More than 60 bottles, whose labels refer to mineral species, groups and varieties are arranged according to the classification corresponding to the "Strunz Mineralogical Tables" by Hugo Strunz and Ernest H. Nickel. The displayed selection ranges from A like agate to Z like zircon (see picture). The exhibition is completed by examples for wines named after magmatic, metamorphic and sedimentary rocks - inter alia with a complete representation of the clastic sediments according to grain size from clay to pebbles.



If there are any questions or if you want to taste some of the exquisite wines, please contact Robert Krickl - Mineralogist from Vienna (robert.krickl@univie.ac.at) - the organiser of the exhibition, who will be on site most of the time.

"Quartz fonts Trepča"

IMA Art Exhibition

During the investigation on the scanning electron microscope, very tiny crystals of quartz were found in samples from Trepča mine (Kosovo). Most of the crystals are agglomerates of several broken crystals. Randomly intergrown crystals form easily recognizable letters of Latin alphabet as well as Arabic numbers.

All letters are shown in the exhibition as well as an image of the Croatian authors: Vladimir Zebec, Vladimir Bermanec, Andrea Čobić, Hrvoje Posilović. This exhibition intends to illustrate the diversity of the aggregates of intergrown quartz crystals from Trepča.



Daily news

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How is mineral written in...

- German: Mineral
- Croatian: mineral
- Czech: minerál
- Hungarian: ásvány
- Polish: mineral
- Romanian: mineral
- Slovakian: minerál
- Slovenian: mineral
- Serbian: минерал
- Bulgarian: минерал

Voices of the IMA2010

- Arabic: معدن
- Finnish: kivennäinen
- Greek: ορυκτό
- Hindi: khaneej
- Icelandic: steinefni
- Italian: minerale
- Japanese: 鉱物 (kohbutsu)
- Portuguese: mineral
- Russian: минерал
- Spanish: mineral