

IAEG C10 Building Stones and Ornamental Stones, Report to IAEG council meeting Madrid sept. 2008

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(Swedish Research Centre for Rock Materials)

Greetings

- And apologies from Prof. Asher Shadmon

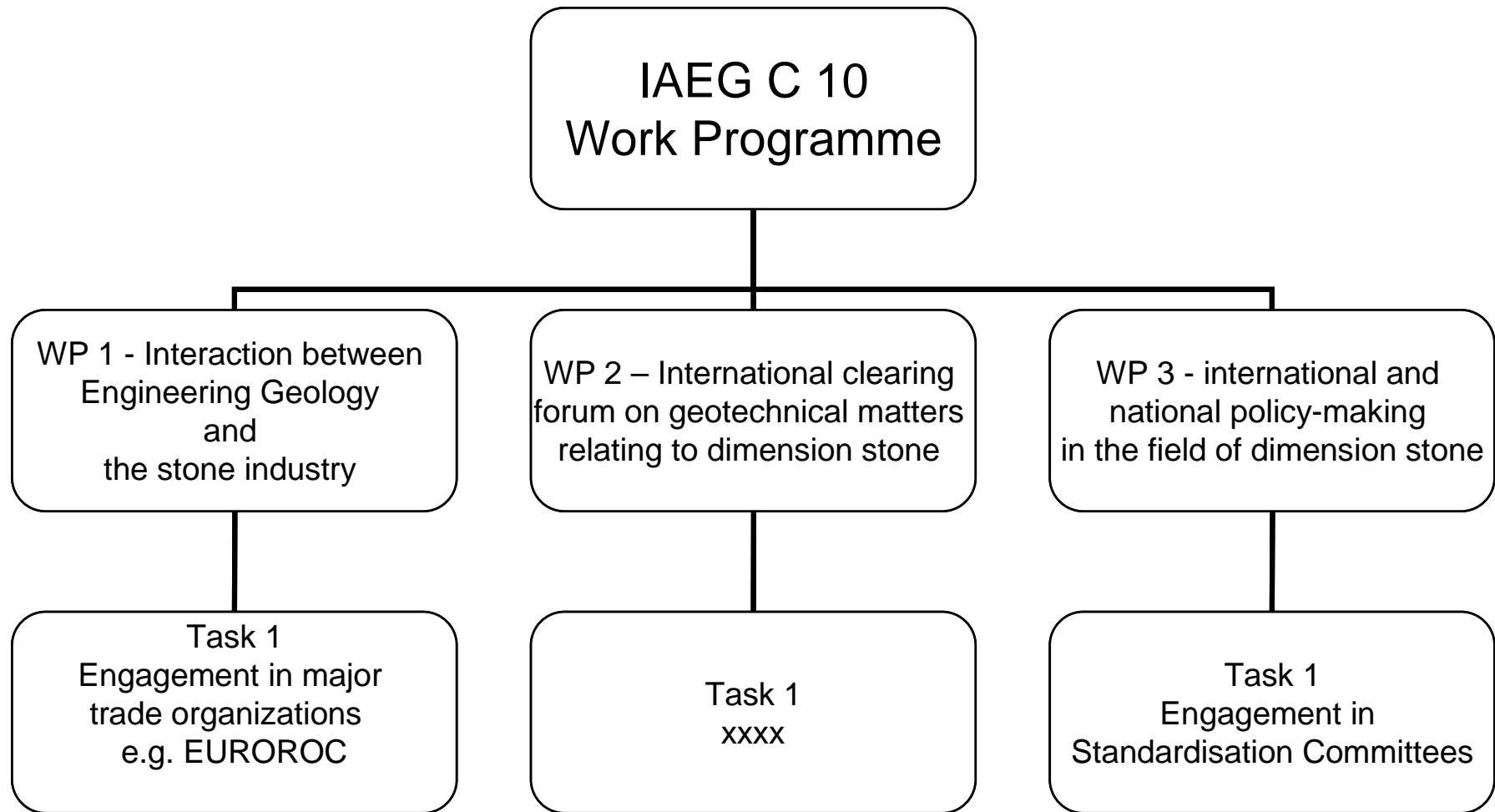
Agenda

1. Past activities - 2007 report
2. New organisation and tasks
3. Events
4. Research
5. Publications
6. 2008 activities and Future outlook

2. ***CORE MEMBERS AND CONTACT ADDRESSES***

- **Chairman:** Dr. Björn Schouenborg, fax +4633134516, e-mail: bjorn.schouenborg@cbi.se
- **Acting secretary:** The task is shared between: Dr. Nike Luodes, e-mail: nike.luodes@kainuunetu.fi
- and Dr. Hannu Luodes, e-mail: hannu.luodes@gtk.fi

Draft structure



Tasks

- **Promotion/Marketing and recruitment of new partners**
- **Allocation of responsibilities on a national level**
- To collect stone inventories and bibliographies leading to the production of a comprehensive bibliography and a book/map on the Stone Resources of the World (jointly with UNESCO)
- To become engaged in major trade organizations like EUROROC
- To identify and list references and information in the IAEG Bulletin referring to dimension stone. To monitor and scan the industrial and trade press and scientific papers for references of geotechnical relevance.
- To produce a standardized geotechnical glossary (multilingual) for the stone industry (including rock types) with their equivalent local terminologies
- Mapping of Best practise in the use of natural stones in the construction area (NICE 'Nordic stone project)
- To collect, correlate and publish case history data on the long term performance of various rocks with respect to their geotechnical properties and the local environment

Tasks continued

- To produce international guidelines on the investigation of potential deposits
- To collect international stone standards and product specification
- To correlate and coordinate data from d. and g. with the objective of developing tests and product specifications and their rationalization.
- To produce international guidelines on stone sampling methods based on geotechnical experiences
- To produce a pamphlet on geotechnical assistance possibilities for the industry on behaviour of stone and methods of investigation, and to bring IAEG activities to the notice of relevant international organisations
- To encourage continuity by having working groups for specific thematic problems
- *To prepare guidelines and case history data on rehabilitation of quarries*
- Identify topics of environmental importance, e.g. to prepare a position paper on underground excavation as a solution to scarring environments
- To identify important topics for collaborative RTD projects. Engagement in European Technological Platforms, (ETP) e.g. ECTP (European Construction TP) and ETP-SMR (Sustainable Mineral Resources).

3. Events

- Heloisa de Frasca, BR, has been occupied with the planning of the 2nd seminar on Dimension stone to be held in Carrara end of May 2008.
- Björn Schouenborg, SE has been re-engaged in CEN TC 246 Natural stones and TC 178/WG 2 Paving units of natural stones. *And will attend the next C18 meeting 2008*
- Most of 2007 activities were focussed on enhancing the C10 network and planning for a combined C10 and C17 seminar on Geological Construction materials, See Annex 2. At the time of drafting this report, the Seminar is ready and more than 50 presentations will be made.
- The annual meeting of EUROROC was held in Breanäs, Sweden. Dr. Schouenborg informed the delegates of the new IAEG C10 structure and objectives

4. Research

- Database of international research projects
- I-STONE (www.istone.ntua.gr)
- NICE Harmonised Requirements for Nordic Natural Stones (www.nordicstones.org)
- ETP-SMR; European technological Platform – Sustainable Mineral Resources
- *STONET* for European Stone Industry Federations
- Networking with EUROROC, CEN TC 246 & ASTM C18

5. Publications

- **No IAEG C10 Publ in the Bull. But we promote it!**
- **UNESCO publications, mainly**
- Natural Stones in Argentina, needs to be reviewed
- Maria Frasca with Asher Shadmon, revision of the Brazilian stone edition, probably next year
- Asher's *Introduction of Stone* will be updated
- **Next publications.**
- *East Central Europé, Incl. Czech, Hungary, Austria, Slovenia, Slovakia, Romania,*
- *Akos Török, East and Central Europe*
- *Kim Young; Korean stone*

And maybe a newsletter?

Request from Asher

- **a Resolution by the council, stating that:**
- The council is interested in continuing the monogram project on “Stone in the world”
- C 10 is the part that should be partner of the project

Publications from the 33rd IGC special seminar on Geological Construction Materials

- A majority favour an official publication of extended abstracts!
- Bulletin of Engineering Geology and the Environment? Phil Paige-Green.....
- Alternatives: Special Publication by Geological Society of London

Building stone library

- One of my current pre-occupations is to arrange the professional library and archival material of my practice, into a form suitable for passing over. Being arguably the largest existing **building stone library** with a geological core, including publications of mid 18th century. It would be a sin to dissipate it.

2008 and future activities

- 33rd IGC Oslo with a special seminar on Geological Construction Materials
- 50 – 60 (Orals + poster)

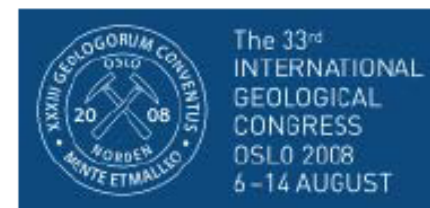
Me: Scientific program

**Excursion: Peer-Richard
Neeb (NGU)**





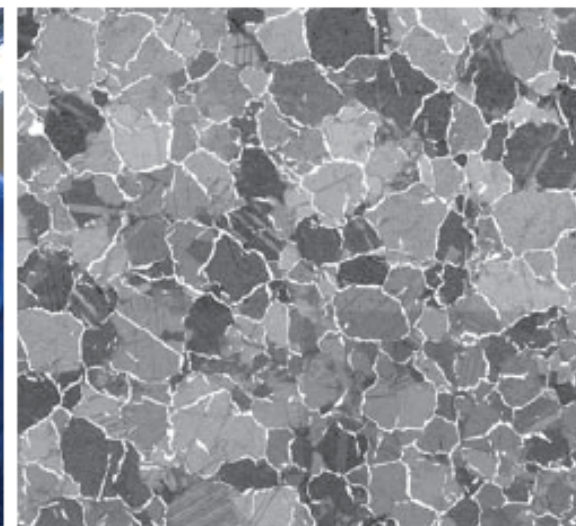
The 33rd International Geological Congress (IGC) Includes a Special symposium on Geological Construction Materials



Oslo, Norway, 6–10 August 2008

Homepage of the main congress
www.33igc.org/coco

titute of Sweden



CBI Betonginstitutet

Topics

- Geology, prospecting, and land use planning of aggregate and natural stone production
- Classification systems and testing of aggregates and available production techniques
- Mineralogical studies versus performance of the product - aggregates and natural stones
- Dimension stone - assessment of stone performance in use
- Environmental influences and reclamation of quarrying and processing - sustainable development
- Waste and left-over materials from dimension stone and aggregate quarries and recycling of construction materials

Chairmen from C10 and C17

- Peer-Richard Neeb
- Atiye Tugrul
- Ju Yong Kim
- Maria Heloisa Barros
- Akos Török
- Mika Räisänen
- Hannu Luodes
- Phillip-Paige Green
summarising the seminar

Rock and Brazz

The two days MRC-08 seminar Geological Construction Materials has just ended successfully. In total, about 60 participants from 5 continents also had the opportunity to attend a very appreciated excursion to Feiring Bruks's high quality aggregate quarry in Bjönndalen.

The quarry is dominated by a beautiful Permian rhomb-porphiry with plenty of different mineralisations of e.g. fluorite, sulphides, zeolites etc. and all rucksacks seemed quite heavy upon the return to Oslo.



IAEG C10 + C17 meeting in Oslo



New subtask of C10: World Heritage Stone

- Barry Cooper introduced the concept (Annex 3)
- Discussion on the inventory guidelines and terminology (natural stone/cultural heritage)
- Basile Christaras and Tom Heldal, C16, and Asher Shadmon have been informed/consulted. C16 - Engineering Geology and Protection of ancient monuments and archaeological sites.
- Co-operation between C10 and C16 is emphasized
- It was recommended by the meeting participants that “The World Heritage Stone” shall start up as a subcommittee of C10. After a pilot-period of 12-18 months its status may be reconsidered (annex 3)

Next C10 and C17 Workshop

- IAEG 2010 New Zealand; Discussion about a C10/17 Workshop during the meeting:
 - Funding
 - Excursion
 - Local (New Zealand) contact person, who has knowledge of aggregates/natural stones
 - Ca 2 days program, workshop (decisions will be made in Madrid, September 2008)

Stone and aggregate working in harmony

C10

C17

