

## IAEG C 10

### Building Stones and Ornamental Stones

#### TERMS OF REFERENCE & PROGRAMME

##### EDITION 2

23rd February 2010

##### NOTE

*This first edition of the Terms of Reference of C 10 was prepared for and accepted by the IAEG Council meeting in Vail June 2007. It is variously based upon details given by Asher Shadmon, the new chairman and members attending the last Conference in Nottingham. A programme and timetable will be added to the document sometime following the inaugural meeting.*

## 1 Subject Matter

The aims of the International Association for Engineering Geology and the environment are:

- to promote and encourage the advancement of Engineering Geology through technological activities and research
- to improve teaching and training in Engineering Geology, and
- to collect, evaluate and disseminate the results of engineering geological activities on a worldwide basis.

Present C 10 core activities include country monographs of stone resources co-published with UNESCO, stone standardization issues with emphasis on geological characteristics, terminology, and also geotechnical classifications. Participants in C-10 include Engineering Geologists, civil and mining engineers, educators, researchers, students as well as stone professionals and practitioners. Meetings usually take place during IAEG related and sponsored events usually not less than once a year, and are open to persons interested in the work of C-10 and who are encouraged to join IAEG.

## 2 Technical Liaison

Liaison will be maintained with CEN TC 246 (Natural Stones), with the appropriate ASTM, committee in North America (C 18), and with other appropriate organisations around the world, including the series of international conferences e.g. IGC. C 10 will also work with other relevant IAEG technical committees and endeavours will be made to forge links with appropriate complementary groups working on similar matters, including the facilitation of international collaboration between related practical research programmes.

### 3 Objectives

C 10 will especially concentrate on the following objectives:

To assist and upgrade dimension stone activities internationally by:

1. promoting the interaction between geologists and engineers
2. promoting the interaction between Engineering Geology and the Stone Industry
3. acting as an international clearing forum on geotechnical matters relating to dimension stone, including building stone, ornamental rocks, Armour stone and Aggregates
4. integrating information obtained from quarry prospects for use in the various geological correlation programmes
5. relating behaviour of stone applications in constructions to observations on stone in their original outcrops and deposits, under different environmental conditions
6. emphasizing responsibilities to ethical and public interests
7. encouraging influence on international and national policy-making in the field of dimension stone
8. encouraging influence on major international research funding organizations like the European Commission. See task 17 below.
9. encouraging harmonisation of international standards and encouraging the introduction of new technologies in the standardisation
10. promoting geotechnics to professionals using stone, especially designers and architects with limited access and understanding of properties as compared to stone esthetics.

C 10 will disseminate its progress and advice in the above objectives, in the following ways:

1. Contact will be maintained with the wider IAEG community by attendance at the annual meetings/conferences whenever possible and/or the organisation of separate IAEG C 10 seminars.
2. Close ties will be established with international standardisation bodies such as ASTM and CEN and industry federations like EUROROC .
3. Continued involvement with the on-going series of international IAEG conferences and IGC conferences (new), especially in respect of the international specification and construction related matters
4. Publishing in *Bulletin of Engineering Geology and the Environment* and *UNESCO* publications

#### 4 Committee Parameters & Membership

The work programme is proposed for a 5 year period, starting in 2007.

At the outset of C 10, the chairman will be Dr Björn Schouenborg and the technical secretary work will be shared by Dr Nike Luodes and Dr Hannu Luodes. Should either or both of these posts become vacant owing to indisposition or resignation, the regular membership will be responsible for identifying and appointing replacements.

At the outset of C 10, the following Teams/Tasks have been identified:

**Tasks (to be assessed and then structured within different Workpackages (WPs)), see part 5 below.**

1. Promotion/Marketing and recruitment of new partners
2. Allocation of responsibilities on a national level
3. 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)
4. To become engaged in major trade organizations like EUROROC
5. 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.
6. To produce a standardized geotechnical glossary (multilingual) for the stone industry (including rock types) with their equivalent local terminologies
7. Mapping of Best practise in the use of natural stones in the construction area
8. 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
9. To produce international guidelines on the investigation of potential deposits
10. To collect international stone standards and product specification
11. To correlate and coordinate data from d. and g. with the objective of developing tests and product specifications and their rationalization.
12. To produce international guidelines on stone sampling methods based on geotechnical experiences
13. 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

14. To encourage continuity by having working groups for specific thematic problems
15. To prepare guidelines and case history data on rehabilitation of quarries
16. Identify topics of environmental importance, e.g. to prepare a position paper on underground excavation as a solution to scarring environments
17. 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).

Members of C10 will primarily be recruited from IAEG members (or employees of corporate IAEG members) who are also national and/or international experts in building with stones.

A large and internationally representative membership is seen as an advantage in achieving acceptance and universal application of the work performed. This is particularly important for this subject, given the wide geological variations in the nature of the problem.

All Members and Corresponding Members will be expected to participate in the work of C10 and, in accordance with IAEG guidelines. Non-participating individuals may be removed from the list of members and corresponding members at the discretion of the Chairman.

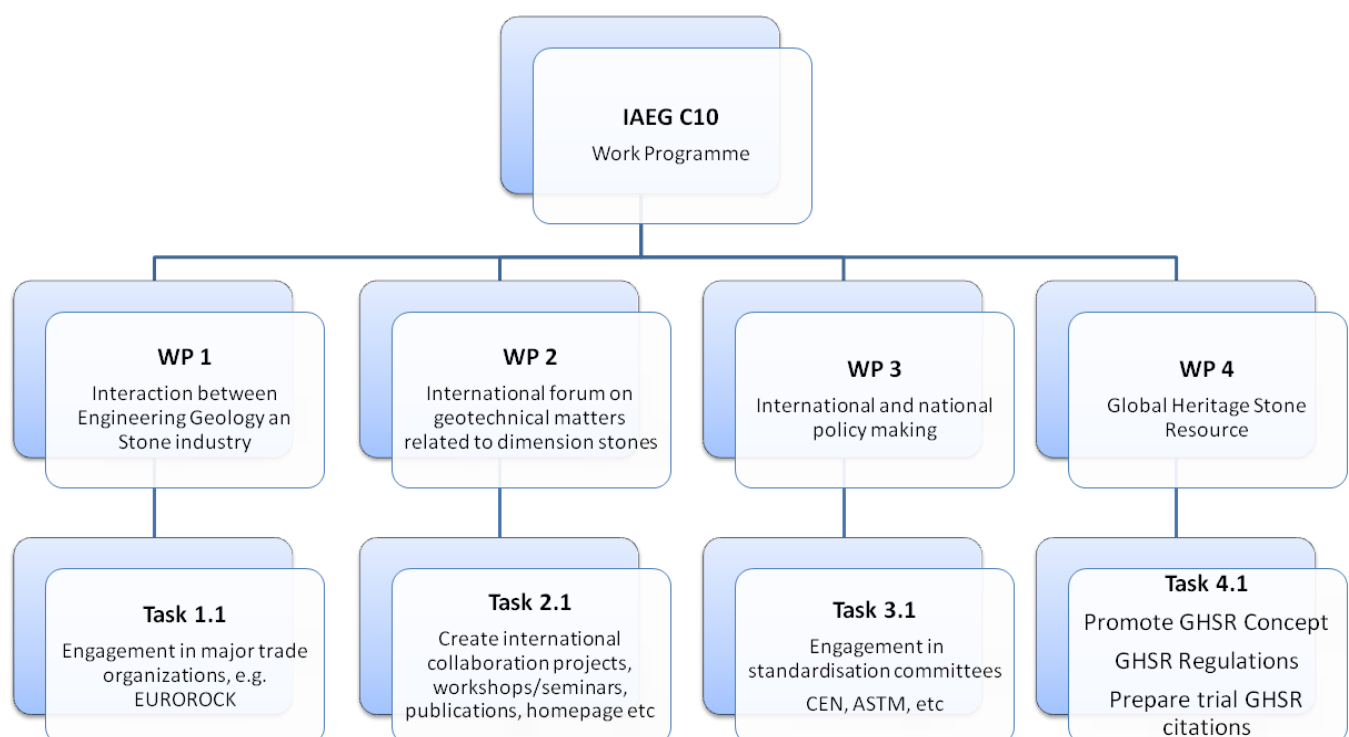
Complementary to the overall collective work of IAEG, the particular objectives of C 10 will be achieved by the formation of Workpackages (WP) to address the main subject areas. Each WP will have one Leader (or sometimes two Leaders), appointed by C 10 from its Membership, and will comprise other participants from the Membership and Corresponding Membership, according to Members' own expertise and preferences. Each Member or Corresponding Member must be associated with at least one WP and may contribute to several (or even all) WPs at his/her own discretion.

## 5 Programme & Timetable

*This section will be added to a later edition of these Terms of Reference, following initial deliberations by the various Teams. A principal sketch of the organisation and different working themes is displayed below.*

### Organisation chart for the C 10 Work programme

The diagram below is a principle sketch of how the work of C 10 is structured. Each WP should have one responsible person allocated.



**The detailed contents of all WPs and tasks are discussed and decided among the active partners. Reports of the progress is given in annual compilations to the IAEG secretariat.**

Promotion, publication