IUGS Commission on the Systematics in Petrology (CSP)

<http://www.dmp.unipd.it/IUGS-CSP/IUGS-CSPindex.htm>

Aims of CSP

The overall objectives of the Commission on Systematics in Petrology (CSP) are the classification of igneous, metamorphic and sedimentary rocks; the elaboration of principles and recommendations; and establishing data bases, leading to a comprehensive nomenclature of magmatic, metamorphic and sedimentary rock-types. These objectives aim at co-ordinating international efforts and international communication in the field of systematics. Achieving classificatory schemes for rocks which are internationally accepted will result in strengthening international co-operation and scientific communication in the broadest frame of geological research.

Organisation structure

The parent commission (CSP) is composed of Chairman (Prof. Giuliano Bellieni), Secretary-General (Dr. Raffaele Sassi) and eleven members through ten countries.

The Commission has actually three active Subcommissions:

- **Subcommission on the Systematics of Igneous Rocks (SSIR)**

Chairman: Bernard Bonin, Orsay (France)

Secretary: Bernard Platevoet, Orsay (France)

- **Subcommission on the Systematics of Metamorphic Rocks (SCMR)**

Chairman: Douglas Fettes, Edinburgh (UK)

Secretary: Jaqueline Desmons, Nancy (France)

- **Subcommission on Data Bases in Petrology (SDBP).**

Chairman: José Brandle, Madrid (Spain);

Secretary: Geza Nagy, Budapest (Hungary).

The Subcommission on the Systematics of Sedimentary rocks (SSSR) is in process of establishment. Niichi Nishiwaki is contacting active sedimentologists to form a discussion group in order to re-establish this subcommission.

Members of the Commission and Subcommissions represent more than 30 countries. The large additional number of corresponding members in the Working Groups, etc., makes the activity of CSP wide spread in the geological community.

Accomplishments/Results

Subcommission on the Systematics of Igneous Rocks (SSIR) was established in the early seventies and has published the major contribution to the systematic igneous rocks in the book *A Classification of Igneous Rocks and Glossary of Terms* (Blue Book). The rapid international acceptance of the classification scheme is a milestone in systematics of igneous rocks. A 2nd

Three papers and a reply were published in international journals, with one translated into Chinese. Five internal papers circulated within the Subcommission and Working Groups.

The Working Groups on Lunar Rocks and on high-Mg rocks wrote final reports, that were published.

Software routines for implementing the TAS classification for volcanic rocks, including code for CIPW norm calculations are downloadable from <http://www.cambridge.org/resources/052166215X>.

Subcommission on the Systematics of Metamorphic Rocks (SCMR) was initiated in 1985 and carried on a considerable amount of work on the series of 12 papers reporting the recommendations of the SCMR. The core paper *How to name a metamorphic Rock* was finished in June 2002. That paper and five others are now complete and have been posted on the SCMR website with 'Provisional Recommendations' status. Three others are posted with 'Draft only' status and are being actively worked on. The other three are still in preparation but drafts exist of two and are being worked on. Work has continued on the *Glossary* and progress has been maintained. During the year the website has been edited and upgraded. Information on the new structure and the scientific output is found on the web page <http://www.bgs.ac.uk/SCMR>.

Subcommission on Data Bases in Petrology (SDBP) was initiated in 1985 and established the principles of the petrologic databases. The SDBP created the features of the database for Petrology in Igneous Rocks denominated IGBADAT now containing nearly 25000 sample descriptions in more than 3 million records (<http://www.ige.csic.es/sdbp/sdbp.htm>).

In 1988 a new field was opened in which the feasibility and various related problems of sedimentary databases was examined by the construction of a prototype data base SEDBA (Sedimentary Base) (<http://www.koka.ac.jp:8080/ss2/yamamoto/sedba/sedba.htm>). Two papers on sandstone database were published in international journals.

Perspectives

The **Commission on Systematics in Petrology (CSP)** has planned a revision of the membership as many member have indicated their willingness to resign after so many years of sustained activity.

Subcommission on the Systematics of Igneous Rocks (SSIR) has proposed a re-examination of the problems of compatibilities between modal and chemical classifications, extending the use of the TAS classification to the plutonic rocks. Furthermore, SSIR will proceed with the translation of the 2nd version of the 'Blue Book' in Russian, Chinese and Spanish.

A website, serving as a worldwide forum on the nomenclature of igneous rocks, will be prepared.

Subcommission on the Systematics of Metamorphic Rocks (SCMR) will ask to the Earth Science Community to comment the papers in progress which have been posted on the website as 'Provisional Recommendation'. During this consulta-

final format for hardcopy publishing. Publication of Systematics of Metamorphic Rocks and complete the *Glossary of Metamorphic Rocks* as the Igneous Rock 'Blue Book'

Subcommission on Data Bases in Petrology (SDBP) proposes to continue its activities with a new Staff embracing all geological fields in order to speed up the communication of the digital informations and organise a system to obtain a more efficient data storage in the existing database. A new institution disposed to maintain a copy of the databases handling with local servers is needed. Furthermore, SDBP proposes to contact other commission or working groups to realise hierarchical table codes in mineralogical, petrologic aspects, stratigraphic ages, classification of the rocks and other features to permit a best use of the home pages in different languages. An home page to attain an easy rules to retrieval to different kind of information existing in the database will be prepared.

Subcommission on the Systematics of Sedimentary Rocks (SSSR). The planned activity will focus on the re-establishing of this Subcommission through calls for specialist and papers during the main Congresses, Workshops and Meetings (i.e. 32nd IGC, August 20–28, 2004, Florence, Italy).

Contacts

A detailed report on the publications of the Subcommissions and further information on the Commission on Systematics in Petrology activities may be obtained through the CSP new website at <http://www.dmp.unipd.it/IUGS-CSP/IUGS-CSPindex.htm> starting from July 2003.

CSP home page: <http://www.dmp.unipd.it/IUGS-CSP/IUGS-CSPindex.htm>

SCMR home page: <http://www.bgs.ac.uk/SCMR>

SDBP home page: <http://www.ige.csic.es/sdbp/sdbp.htm>

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