

CCOP E-News

Coordinating Committee for Geoscience Programmes in East and Southeast Asia

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Welcome to the CCOP E-News. This e-news is brought to you by CCOP and is meant to give you the latest news and information on its activities around the region and worldwide.

CCOP E-News replaces the former printed CCOP Newsletter and will be issued several times each year. Each issue can be downloaded at the CCOP website, <http://www.ccop.or.th> in PDF format.



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MESSAGE FROM DIRECTOR

As you all know, the CCOP Programme was severely disrupted by the floods in Bangkok during the latter part of 2011, but now, due to the active support and cooperation of CCOP's Member Countries, many important events in the CCOP calendar are now back on track. Most significantly, the 58th Steering Committee Meeting was recently hosted by China in March and the 48th Annual Session will be hosted by Malaysia in November 2012. Approved minutes of the Steering Committee Meeting, providing a full record, are available on the CCOP website and a briefer account, summarising the main outcomes of the meeting, is given in the following section of this newsletter.

As of 1 April 2012, CCOP Technical Secretariat (CCOPTS) has put in place its new structure, adopting a balanced budget in its operation. With this in place, CCOPTS is expecting an efficient operation and provision of better services for the Member Countries towards achieving CCOP's mission. Appreciation and thanks are accorded to all the staff of the CCOPTS, both past and present, for their contribution in carrying out the tasks of the secretariat.

58th CCOP Steering Committee Meeting

The 58th CCOP Steering Committee Meeting was held at the International Conference Hotel of Nanjing, China on the 26 to 28 March, 2012. The Meeting was attended by thirteen Member Countries (MCs) **CAMBODIA, CHINA, INDONESIA, JAPAN, REPUBLIC OF KOREA, LAO PDR, MALAYSIA, SINGAPORE, PAPUA NEW GUINEA, PHILIPPINES, TIMOR-LESTE, THAILAND and VIETNAM**. Also in attendance were **observers** from Myanmar and Mongolia, the Vice Chairman of the Advisory Group Ms. Franca Schwarz and the Director and members of the CCOP Technical Secretariat. (CCOPTS). Dr. Øystein Berg (Representative of PETRAD) was present as Resource Person.

Dr. Wang Min, Vice-Minister of the Ministry of Land and Resources, China, welcomed the representatives of the CCOP Member Countries. **Dr. R. Sukhyar**, Chairman of CCOP Steering Committee, Permanent Representative of Indonesia to CCOP and Head of the Geological Agency, Ministry of Energy and Mineral Resources (MEMR), chaired the Meeting. The main decisions and accompanying discussions are summarised below.

The 2012 CCOP Annual Session

Malaysia announced that it will host the 48th CCOP Annual Session and the 59th CCOP Steering Committee Meeting in Langkawi on 4-8 November and 9-10 November 2012 respectively.

CCOP Organisation

Administrative matters

The CCOPTS were instructed by the meeting to:

- make it to normal practice to provide all the standard CCOP administrative documents, such as the CCOP Administrative Code, Financial Code, Terms of Reference etc, to the newly appointed Permanent Representatives of CCOP Member Country, including the reports of the last five SC meetings.



MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT



MINERALS AND GEOSCIENCE DEPARTMENT



PETRONAS



COORDINATING COMMITTEE FOR GEOSCIENCE PROGRAMMES IN EAST AND SOUTHEAST ASIA

CCOP 2012 Langkawi, Malaysia

**48th Annual Session
4-8 November 2012**

**59th Steering Committee Meeting
9-10 November 2012**



- provide electronic copies of all the reports of the SC meetings to the office of all the Permanent Representatives
- establish Key Performance Indicators (KPI) for each staff in the CCOPTS with the new structure which will be adopted from 1 April 2012. This should be aligned to the CCOP Strategic Plan
- make concerted efforts in exploring opportunities and securing more projects for CCOP.

CCOP Business Plan 2012-2015

The Meeting endorsed the CCOP Business Plan 2012-2015, and tasked the CCOPTS to provide detailed quarterly reports on project activities and budget status to the Permanent Representatives of the Member Countries in accordance with the Business Plan.

CCOP Workplan 2012, Status of Project Proposals and New Initiatives

The Director presented the CCOP Workplan for 2012 and new project initiatives, with additional details contributed by members of the TS as follows:

Mr. Simplicio Caluyong, Coordinator of the **EPPM** Program, reported its accomplishments during the last year and the way forward. The scope and structure of the planned CO₂ Storage mapping project was also presented. He reported the commitment from the Global Carbon Capture and Storage Institute (GCCSI) of Australia to provide a facilitating fund of AUD 0.3 Million to launch the Project. Criteria for hosting case studies would mainly involve the provision of technical data and open access to that data for all participants. He also reported a further initiative; to extend the **EPPM (P1)** cross border case study to include **Myanmar**. Noting the importance of case studies, **Indonesia** suggested that CCOP TS should also consider frontier areas.

The Meeting endorsed the CCOP Workplan for 2012 and the new project initiatives.

Implementation of the CCOPTS Restructuring Plan

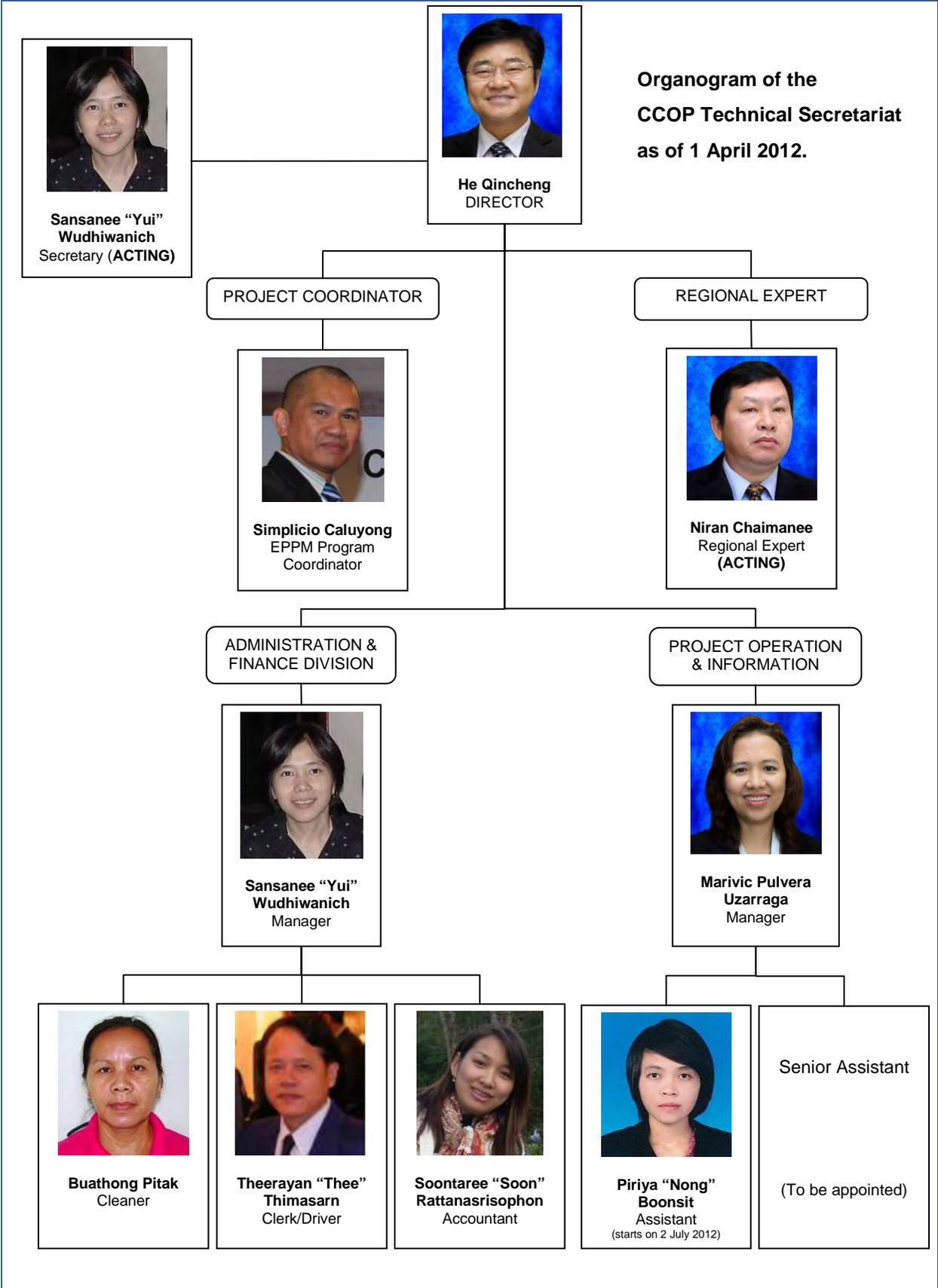
The Director reported on the progress of the implementation of the CCOPTS Restructuring Plan with the new structure in place from 1 April, 2012 (see opposite).

With regards to the Regional Expert position in the new structure, the Meeting decided to open this post to all the Member Countries for nominations. The deadline for nominations is 29 May 2012, and evaluation of nominated candidates will be done within one month. By early July 2012, the person who will be offered the post will be announced to all the Member Countries. The Meeting gave the authority to the Chairman of the CCOP Steering Committee to formulate the evaluation criteria.

Malaysia supported the suggestion made by the CCOP Director that each Member Country should consider dispatching an expert to CCOP TS for a stipulated period. However, a directive needs to be made concerning the financial benefits to be enjoyed by the MC expert.

Proposed Upgrade of CCOP TS Computer Hardware & Software and Office Facilities

The proposed upgrade of CCOPTS computer hardware & software, and purchase of a new CCOP car was approved upon endorsing the recommendations of the 7th Select Finance Committee Meeting recommendations.



New CCOP Cooperating Organization and CCOP Honorary Advisors

The **Universiti Kebangsaan Malaysia (UKM)** was accepted as a new CCOP Cooperating Organization.

Dr Hee Young Chun, former CCOPTS Director, and **Dr Jos Sonnevile**, former Representative of the Netherlands to CCOP, were accepted as new CCOP Honorary Advisors.

Proposal for establishing a Network of Member Country Officers-in-charge of CCOP Matters

The Meeting agreed to a proposal by **Japan** for a network of designated officers-in-charge of CCOP Matters for each Member Country. The Geological Survey of Japan will contact all the Member Countries before mid-April 2012 to discuss the details of this proposal.

Establishment of Consultation Mechanism among the Heads of Geological Surveys in CCOP Member Countries

The Meeting agreed to further consider the proposal by **China** to establish a consultation mechanism among the Heads of Geological Surveys in the CCOP Member Countries. Malaysia suggested that CCOP should also consider creating a discussion forum within the CCOP webpage.

Rules for Steering Committee Meetings

It was agreed that at Steering Committee Meetings:

- The maximum number of delegates from each Member Country is three, including the Head of Delegation. The host country can have more than 3 delegates.
- The host country of the CCOP Steering Committee Meeting is allowed to arrange activities in conjunction with the meeting.

Project Reports

CCOP/IYPE Project; Geological Museums of East and Southeast Asia

The Director announced the publication of the book, Geological Museums of East and Southeast, a CCOP contribution to the International Year of Planet Earth, financially supported by Universiti Kebangsaan Malaysia (UKM). Copies were distributed to each Member Country at the Meeting. The Meeting thanked Malaysia/UKM, for their support for this publication.

The One Geology Project

Japan informed the Meeting that the One Geology Steering Group, at its meeting in Tokyo, Japan on 27 September to 1 October 2011, had agreed for the Geological Survey of Japan to be the coordinator for Asia. In this regard, Japan encouraged the cooperation of all the CCOP Member Countries for this international initiative. The institution that will succeed the British Geological Survey as the next secretariat for the One Geology project will be decided at the International Geological Congress (IGC) in Brisbane, Australia, in August 2012.

CCOP Geochemical Mapping Project

Dr Wang Xueqiu, Project Leader of the CGS-CCOP Geochemical Mapping Project and Co-leader of the Task Group on the IUGS/IAG Global Geochemical Baselines, presented an overview of the project to the Meeting. China Geological Survey will send a detailed proposal for this project to all the Member Countries for consideration.

Dr Alecos Demetriades member of Task Group on the IUGS/IAG Global Geochemical Baselines explained that in order to produce a geochemical atlas of CCOP Member Countries a harmonised geochemical database was needed, requiring that:

- all samples must be collected the same way;
- all samples must be prepared in the same laboratory;
- and all samples for the same suite of elements must be analyzed by the same laboratory.

Vietnam expressed their concern about the implementation of this project as the procedures of sampling, analysis and etc are subject to national regulation and they would have to consult their government before giving their comments.

Other Matters

International Geoscience Journal of Indonesia

Indonesia reported on the successful establishment of the International Geoscience Journal of Indonesia, as a result of the Workshop of Editorial Boards of Geoscience Journals in East and Southeast Asia held in Bandung in 2011. An editorial Board of international geoscientists has been appointed and Indonesia now needs support from CCOP and its Member Countries to enable it to arrange a regular meeting for the editorial board, to be funded by Geological Agency, Indonesia, and held in conjunction or in parallel with CCOP activities.

CCOP and Public Awareness

Malaysia shared with the meeting a proposed new approach to be adopted by the Institute of Geology, Malaysia, of appointing an event manager to organize and run programmes on behalf of CCOP and open them to the general public for a fee. The event manager will bear all initial costs and share/contribute an agreed sum from the event with CCOP. With this approach, CCOP can help to fulfill its mandate of creating awareness in the general public.



News from the Technical Secretariat

A new CCOPTS structure has been in place since 1 April 2012 (See page 4). Accordingly, **Mr Niran Chaimanee** has been appointed as interim Regional Expert, until a substantive appointment is made by the Steering Committee. **Ms Marivic Pulvera Uzarraga** has been appointed as the Manager of the new division, Project Operation and Information, and **Ms Sansanee Wudhiwanich** as Manager of Finance and Administration. **Ms Petcharat “Fern” Sarawisutra** left the CCOP Technical Secretariat on 3 May, 2012. In July, a new staff member will join the CCOPTS as assistant to the Project Operation and Information Division.

CCOP thanks **Ms Fern** for her 23-years of service at the CCOPTS, and wishes her well in her future career.

With the new structure in place, CCOPTS looks forward to the efficient operation of the secretariat, continuing to serve the CCOP Member Countries for the accomplishment of the CCOP mission.

Contents of the CCOP E-Newsletter: The Opinions of Member Countries

At the recent CCOP Steering Committee Meeting a questionnaire was completed by eleven of the Member Countries present, the aim being to determine whether the Member Countries were satisfied with the current contents of the E-Newsletter. The result indicated almost unanimous support for maintaining the current list of contents. There was also wide support (80%) for two further regular items, “News from Member Countries” and “News from Cooperating Countries/Organisations”. Contact persons were designated by most of the Member Countries from whom relevant news could be collected and contacts will be sought from Cooperating Countries/Organisations for a similar purpose.

The questionnaire also revealed that a majority of the Geological Survey Organisations of the Member Countries made copies of the Newsletter available in their libraries and just over half circulated it to senior staff of the relevant Programme Sectors in their organisations.

Further views on the utility of the Newsletter and suggestions for possible improvements will be sought at the CCOP Annual Session in Malaysia.

Prospective New Member Countries and Cooperating Organisations

Prospective new member countries, Myanmar and Mongolia were in attendance as observers at the 58th CCOP Steering Committee (58SC) Meeting held in Nanjing, China on 26-28 March 2012. Both of these countries as well as Brunei also participated the **CGS – CCOP Seminar on CCOP Geochemical Mapping** which was held right after the 58SC Meeting.

These countries have been invited to participate in several recent CCOP activities where the budget allows. CCOP looks forward to welcoming these countries as new members of the CCOP family.

News from the CCOP Programme Sectors

Geo-Resources Sector: United Nations Framework Classification for Fossil Energy and Mineral Reserves and Resources (UNFC)

A workshop in Bangkok was organized by CCOP, under its Norwegian funded “Enhancing Public Petroleum Management Programme” and in cooperation with ECE and ESCAP. UNFC is the only modern classification system in the world to address to address the minerals, petroleum and uranium sectors using a single set of definitions and terminology.



Participants from **Cambodia, China, Indonesia, Korea, Lao PDR, Malaysia, the Philippines, Thailand and Vietnam** took part in the two day workshop. The workshop was opened by Mr Hongpeng Liu, Chief of the Energy Security and Water Resources Section at ESCAP. He highlighted the critical role of fossil fuel and mineral resources for development in the region. “Resources are limited and access to them could become contentious. It becomes essential to be able to assess the supply base and reserves in a scientific manner that is accepted by all. Implementing the UNFC will help the ESCAP region with accurate resource assessments that will promote enhanced energy security and sustainability”.



Dr He Qingcheng, Director of the CCOP Technical Secretariat, observed that the UNFC “paves the way towards improved and efficient global communication among stakeholders that will then aid stability and security of supplies with better understood rules and guidelines. **Mr Per Blystad**, Senior advisor to the Norwegian Petroleum Directorate explained that the importance of efficiency in upstream resource management should not be underestimated and “a common classification system should significantly enhance our ability to document and evaluate the potential resource base in a consistent and accurate manner leading to a more reliable database for global energy studies. Development of the UNFC is not yet finished as specifications remain to be finalised for the system to be complete. Thus the coming years will be critical”. **Dr Ian Lambert**, Group Leader of Geoscience Australia, underlined the value of the UNFC as a universal template. “Currently, at national and international levels, we are comparing and adding estimates that are not compatible, and this is an unsatisfactory situation”.

Full details, programme, documents and photos available at CCOP-EPPM webpage, <http://www.ccop.or.th/eppm/view.php?id=35>

Geo-Environment Sector: Managing Earthquake and Volcanic Eruption Risk

The 1st Workshop of Asia-Pacific Region Global Earthquake and Volcanic Eruption Risk Management (G-EVER1), organized by **Geological Survey of Japan, AIST**, took place from 22 to 25 February 2012, at the AIST Tsukuba Headquarters, Japan.

As shown by the 2011 Tohoku Earthquake off the Pacific coast of Japan, the Asia-Pacific Region is an area with a high risk of catastrophic natural disasters such as earthquakes and volcanic eruptions. Once such a disaster occurs, in today's highly globalized economy, it can create unpredictable turmoil all over the world, not just in the immediately affected area. Countermeasures against these large-scale disasters are crucial for the sustainable development of the global economy and to ensure human security. With this in mind, now is an appropriate time to establish an effective international framework for collaboration and development of a system to gather information on disaster mitigation in Asia-Pacific Region, including Japan.

This first workshop comprised presentations on recent earthquakes and volcanic eruptions and reports of the Asia-Pacific Region, databases and risk management together with Group discussion on collaboration within the region and future plans for the G-EVER Project.

The CCOP Technical Secretariat was invited to contribute a technical presentation on earthquake history in Thailand and to comment on future collaboration with other international geoscience organizations. CCOP intends to further collaborate with G-EVER and expects to be the SE Asia facilitator for a future G-EVER Hub website.



Unzen Volcano, Japan



Merapi Volcano, Indonesia

Geo-Environment Sector: Changes in Some Project Schedules

The CCOP Steering Committee has been informed that, due to the March 2011 earthquake in **Japan**, the CCOP-GSJ Geoscience Project, Integrated Geological Assessment of Deltas in Southeast Asia Phase 2 (DeISEA II Project) originally planned for fiscal year 2011, has been postponed to fiscal year 2012.

Korea has informed the CCOP Steering Committee that due to financial constraints the CCOP-KIGAM project, "GeoCoast2: Geohazard Assessment in Asia" cannot be launched this year. Renewed efforts will be made to obtain the necessary finance in future years.

Geo-Information Sector: Background to CCOP Thematic Sessions

During the 37th Annual Session in 2000, at a meeting of the Advisory Group, Denmark suggested that interactive discussion of currently important geoscientific issues within CCOP could be encouraged by organising a special Thematic Session at future Annual Sessions. This idea was widely supported and at the 39th Annual in 2002 in Jogjakarta, Indonesia, half of one day was devoted to the first Thematic Session entitled “Policies and Geoscientific Issues for Sustainable Development of Georesources: Energy, Minerals and Groundwater”. Thereafter it was decided that the Member Country hosting the Annual Session would select the theme for that year’s Thematic Session and that contributions would be published as Part II of the Annual Session Proceedings. Subsequent topics have been:

2003 (Malaysia). “Raising Awareness of the Importance of Geoscience and the Promotion of Geoscience Information and Services”.

2004 (Japan). “Geoenvironment of Deltas and Groundwater Management in East and Southeast Asia”.

2005 (China). “Sustainable Development of Georesources and Geoenvironment”.

2006 (Korea). “New Sources of Energy in the CCOP Region: Gas Hydrates and Coal-bed Methane”.

2007 (Philippines). “Awareness and Cooperation in the Geosciences for Safer, Healthier and Wealthier Communities”

2008 (Thailand). “Geoscience Context in Response to Current Global Issues”

2009 (Vietnam). “Sustainable and Environmentally Friendly Development of Georesources”.

2010 (Indonesia). “Understanding Climatic Change in order to Enhance the Geoscientific Contribution for Society and its Environment”.

In 2011 the Annual Session, together with the Thematic session, due to be held in Thailand, was cancelled due to the severe flooding in Bangkok.

The subject for this year’s Thematic Session in Malaysia will be announced shortly.

Geo-Information Sector: Asia-Pacific Years of Action for Applications of Space Technology and the Geographic Information System for Disaster Risk Reduction and Sustainable Development, 2012-2017

The Director and Manager, Project Operation and Information attended the Sixty-Eighth Session of the United Nations Economic and Social Commission for Asia and the Pacific (UN-ESCAP) held on 17-23 May 2012 in Bangkok, Thailand. At this Session, the following resolutions related to CCOP’s activities were adopted by UN-ESCAP:

1. Proclaims the period from 2012 to 2017 the Asia-Pacific Years of Action for Applications of Space Technology and the Geographic Information System for Disaster Risk Reduction and Sustainable Development, to commence on the first day of World Space Week, 4 October 2012;
2. Decides that the objective of the Asia-Pacific Years of Action should be to enhance efforts at the national and regional levels to broaden and deepen the contribution of space technology and the Geographic Information System to addressing issues related to disaster risk reduction and disaster risk management as well as environment and

development by increasing relevant activities at the national, subregional and regional levels;

3. Welcomes the proposed holding of the Intergovernmental Meeting to Prepare a Plan of Action for the Asia-Pacific Years of Action, to be hosted by a member State by the end of 2012;
4. Encourages all members and associate members to participate actively in the Intergovernmental Meeting and its preparatory process;
5. Invites United Nations bodies and specialized agencies, as well as intergovernmental, regional and subregional organizations and other stakeholders to participate in and contribute to the Intergovernmental Meeting and its preparatory process;
6. Invites members to make use of programmes offered by the Centre for Space Science and Technology Education in Asia and the Pacific for capacity building in space technologies and the Geographic Information System;
7. Calls for continued support to activities under the Regional Space Applications Programme for Sustainable Development in Asia and the Pacific in promoting space technology applications;
8. Invites member States to carry out activities relevant to the Asia-Pacific Years of Action, including:
 - a) Hosting workshops in cooperation with United Nations bodies and other international/intergovernmental organizations as well as regional and subregional entities, such as the Asia-Pacific Regional Space Agency Forum, the Asia-Pacific Space Cooperation Organization and the Asian Development Bank;
 - b) Promoting initiatives such as Sentinel Asia, Space Applications For Environment, the Regional Readiness Review for Key Climate Missions, and Asia-Oceania experiments of Global Navigation Satellite Systems that include the Quasi-Zenith Satellite System;
9. Invites all relevant specialized agencies and bodies of the United Nations system as well as intergovernmental, regional and subregional organizations and other stakeholders to take action in support of the Asia-Pacific Years of Action;
10. Requests the Executive Secretary to facilitate the organization of activities associated with the Asia-Pacific Years of Action in collaboration with other regional initiatives.

For more information about the Session you may visit its page:

<http://www.unescap.org/commission/68/>



News from Member Countries

KOREA

International School for Geoscience Resources (IS-GEO)

In 2010, at the 47th CCOP Annual Session in Indonesia, the **Korea Institute of Geoscience and Minerals (KIGAM)** introduced its newly established **International School for Geoscience Resources**. Delegates at the Annual Session welcomed this Korean Initiative which promised to be an important training resource in the CCOP region and this is certainly proving to be the case. To date a total of 38 geoscientists from 10 CCOP Member Countries have participated in training courses at IS-GEO. These courses included: *Mineral Resources Exploration (9 CCOP participants)*, *Sediment Hosted and Unconformity Related Mineral Deposits (7)*, *Geological Application of GIS/Remote Sensing (8)*, *Groundwater Theory and Practice(7)* , *Coastal Geology and Geohazards (7)* , *Economic Geology and Target Mapping (2)*, *Understanding Quaternary Terrestrial Environments and Applications in a Variety of Scientific Disciplines (2)*.



Mineral Resources Exploration



Groundwater Theory and Practice

For more information about IS-GEO contact:

Dr Young Joo Lee (KIGAM): e mail yjl@kigam.re.kr

News from Cooperating Countries and Cooperating Organisations

A New Initiative By The British Geological Survey

The United Kingdom, represented by the British Geological Survey (BGS), has been a Cooperating Country of CCOP for more than forty years and has undertaken many varied projects in collaboration with CCOP. BGS has recently announced the launch of a new initiative “**Open Geoscience Data Models**” which could be of interest to CCOP Member Countries.

All national Geological Survey Organisations (GSOs) undertake the basic task of collecting, storing and providing data concerning the geology of their nation’s territory. Some of the GSOs within the CCOP family are relatively new organisations, some have much longer histories, but the BGS, the world’s oldest national geological Survey, has existed for more than 175 years. During all this time the BGS has collected and stored huge amounts of geological data and, more recently, has invested well over \$1,500,000 and several decades of effort in designing and building modern geoscience databases. As a result BGS now has a

wealth of mature and well documented database designs and is regularly contacted by other GSOs and by industry for copies of these designs. The UK Natural Environment Research Council recently awarded BGS funding to finance a 2 year project to make the BGS database designs freely available via the BGS Website:

<http://www.bgs.ac.uk/services/dataModels/home.html>

BGS are currently seeking project partners who would be interested in trying out the BGS designs and who might also like to benefit from BGS' assistance in implementing and amending such designs. Any CCOP Member Country who is interested in becoming a project partner should send a brief email to Carl Watson at: carl.watson@bgs.ac.uk. BGS is not looking for any financial contribution and would like to hear from anyone with a geological or technical interest in how geological data is captured, managed and used.

The screenshot shows the BGS website page for 'Open Geoscience Data Models'. The header includes the BGS logo and the tagline 'Applied geoscience for our changing Earth'. The main content area features a navigation menu on the left, a central text block describing the project, and a 'See also' section on the right. A photo of a hand drawing a diagram is included, with a caption stating it is a two-year NERC-funded project. A 'Latest News' section at the bottom highlights the 'Borehole Data Model' available for download.

Our services

- 3D geology
- Services for you
- Shops and publications
- Biostratigraphy
- Information & data
- Laboratories
- Library
- Training
- Enquiries

Open Geoscience Data Models

BGS Open Geoscience Data Models aim to provide open, ready-to-use database designs that are free for all.

We also intend to build a self sustaining community that will develop these designs, and add additional designs, to meet the needs of the wider environmental community.

You can influence which topics we develop by filling in our short [online survey](#)

See also

- OpenGeoscience
- NERC Knowledge exchange
- Get involved
- Borehole Data Model

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News

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Latest News

Borehole Data Model
October 2011 — Our first data model is now available for download! It contains the design and documentation required to create a database for holding a Borehole Index and Geological Interpretations, see [Borehole Data Model](#)

BGS are offering

Geoscience subject area specific designs

The following topics are just some of the designs which are available:

- Landslides
- Geochemistry
- Hydrogeology
- Collections management
- Borehole location
- Borehole description
- Lithostratigraphical lexicon
- Rock classification

* All designs are fully documented and include suggestions on where changes could be made to make the designs more applicable to your own organisation.

Code to create the designs using a range of technologies, including:

- MySQL
- PostgreSQL
- Oracle/Oracle Express
- Microsoft Access/SQL Server

Accompanying data dictionaries

These contain a wealth of semantic information; see the Rock Classification Scheme for example: <http://www.bgs.ac.uk/bgsrscs/>

Site visits

BGS has the budget to send its database & web technology experts to visit you and provide advice on:

- Implementation
- Promoting data management standards
- Making the most of your data assets

Mission Trips & Meetings

- The Geo-Information Sector Coordinator (Manager, Project Operation and Information) participated the Japan-supported **Training Program on Mineral Resource Database for ASEAN** [ENMD] on 11-20 January 2012 in Tokyo, Japan.
- The Geo-Environment Sector Coordinator (Acting Regional Expert) attended the **GSJ/AIST First Workshop of Asia-Pacific Region Global Earthquake and Volcanic Eruption Risk Management (G-EVER1)** on 21-24 February 2012 in Tsukuba, Japan.
- The Director and Acting Regional Expert visited **Yunnan Province Institute of Geothermal Investigation and Exploration** in China on 23-26 April 2012.
- The EPPM Programme Coordinator participated in the **3rd Session of the UNECE Expert Group on Resource Classification** held in Geneva, Switzerland on 2 - 4 May 2012.
- The Director attended the **5th International UNESCO Conference on Geoparks** held on 11-15 May 2012 in Unzen Volcanic Area Global Geopark, Japan.
- The EPPM Programme Coordinator attended the **ASCOPE-CCOP-PETRAD E&P BDC - Joint Committee Meeting** held in Manila, Philippines on 17-21 May 2012.
- The Director and Manager, Project Operation and Information, attended the **68th Session of the UN Economic and Social Commission for Asia and the Pacific (ESCAP)**, 17-23 May 2012, Bangkok, Thailand.
- The Manager, Project Operation and Information, participated and assisted the **Workshop on ASEAN Mineral Database and Information System**, 26-29 June 2012, Yogyakarta, Indonesia.

New CCOP Publications

- **Proceedings of the 47th CCOP Annual Session, Part II.** This publication is the proceedings of the *Thematic Session on “Understanding the Climatic Change in Order to Enhance Geoscientific Contribution for Society and Its Environments”* at the 47th CCOP Annual Session held in Manado, North Sulawesi, Indonesia on 17-21 October 2010. The PDF file of this proceedings can be downloaded from this link: http://www.ccop.or.th/download/pub/47as_ii.pdf
- **Geological Museums in East and Southeast Asia.** This publication is for the International Year of the Planet Earth, featuring geological museums in China, Indonesia, Japan, Korea, Philippines, Papua New Guinea, Thailand and Vietnam. An electronic copy of this book will be soon made available at the CCOP website.

Upcoming CCOP Activities

Date	Activity	Venue
4-7 Sept 2012	CCOP-EPPM P1W6: North Sumatra – Mergui Basin Case Study: Risking of Petroleum Plays and Prospects.	Labuan, Malaysia
12-14 Sept 2012	EPPM Program Seminar 6 (S6): Seminar/Workshop- CCS Opportunities in the CCOP Region	Bali, Indonesia
4-8 Nov 2012	48 th CCOP Annual Session	Langkawi, Malaysia
9-10 Nov 2012	59 th CCOP Steering Committee Meeting	Langkawi, Malaysia
Nov 2012 (TBC)	CCS Mapping Project Kick-Off Meeting	Thailand
Nov 2012 (TBC)	CCOP-DeISEA Phase-II Short Course on Coastal/Quaternary Geology and Remote Sensing	Malaysia

*Items with TBC are those to be confirmed.

For More Information

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