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Review of issues pertinent to the subsidiary structure of the Commission, including the work of the regional institutions: environment and development

Report of the Coordinating Committee for Geoscience Programmes in East and South-East Asia (CCOP)**

Summary

CCOP had successfully carried out most of its planned activities for the year 2016, focused on coordinating geoscience programmes in member countries, and continued human resource development and institutional capacity building, while easing flow of technical information between the member countries, cooperating countries and organizations of CCOP. Cooperating countries and organizations continued to provide technical support for CCOP activities, towards sustainable geo-resources and environmental development in the CCOP region. Member countries also provided in-kind support for CCOP work programmes, apart from engaging representations in all CCOP activities.

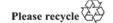
In the reporting period from 1 January to 31 December 2016, a total of 31 training/workshop activities have been completed and attended by 984 participants from the CCOP Member Countries. The activities have focused on capacity building, knowledge sharing and technology transfer, and were highly appreciated by the participants from CCOP member countries.

ESCAP and CCOP continued to maintain consultations and cooperation through mutual participation in major annual meetings, networking and exchange of publications.

Introduction

The Coordinating Committee for Geoscience Programmes in East and Southeast Asia (CCOP) is an intergovernmental organization whose mission is to contribute significantly to the economic development and sustainable management of the environment and improvement of the quality of life of its Member Countries by the application of Earth science knowledge through outreach, cooperation and partnership, knowledge enhancement and training, and data information.

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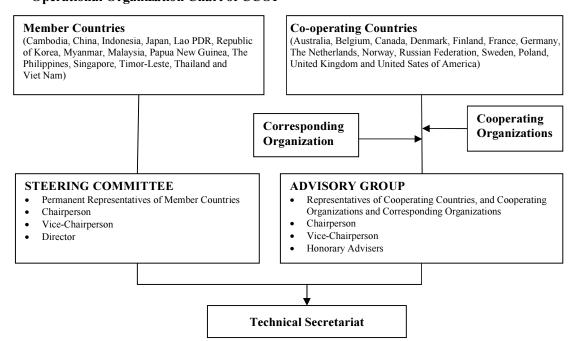


^{*} E/ESCAP/73/L.1.

The CCOP "Coordinating Committee for Offshore Prospecting in Asia" was first established in 1966 under the auspices of ESCAP and the United Nations. CCOP became an independent intergovernmental organization in 1987. The name was changed in 1994 to Coordinating Committee for Coastal and Offshore Geoscience Programmes in East and Southeast Asia. In 2001, CCOP has reviewed and redefined its programmes and activities accompanied by a name-change to Coordinating Committee for Geoscience Programmes in East and Southeast Asia. In 2015, a new strategic plan has been adopted maintaining the same focus:

- Outreach to enhance influence with decision makers, investors and the public through the provision of relevant Earth science information and to develop appropriate skills for communicating effectively with CCOP stakeholders.
- □ Cooperation and Partnership to enhance the internal and external partnerships to improve the quality, reach application and impact of our Earth science information and knowledge.
- ☐ Knowledge Enhancement and Sharing to manage, promote, share and exploit the region's Earth science information and skills.
- □ Data and Information to advance sharing of data and information and integrate Earth science data across national boundaries.

Figure 1
Operational Organization Chart of CCOP



CCOP has 14 member countries; Cambodia, China, Indonesia, Japan, Lao PDR, Myanmar, Malaysia, Papua New Guinea, The Philippines, Republic of Korea, Singapore, Timor-Leste, Thailand and Viet Nam. CCOP is being supported by 14 cooperating countries and 15 international organizations, SPC being the newcomer. The CCOP Technical Secretariat is responsible for the coordination of all activities carried out by CCOP. It is headed by a Director, who reports to the CCOP Steering Committee consisting of one permanent representative from each member country. The Headquarters of the CCOP Technical Secretariat is located in Bangkok, Thailand. CCOP's operational organization chart is illustrated in figure 1.

Technical Activities

In 2016, a total of 31 training/workshop activities were carried out and attended by 984 participants from the CCOP Member Countries. With strategic focus on capacity building, knowledge sharing and technology transfer; the workshops, training courses, symposiums, working group meetings and expert visits were conducted during the reporting period and Member Countries participation were highly appreciated.

Summary of CCOP Member Countries' Participation in Technical Activities

Sector	No. of activities	No. of participants
Geo-resources	17	497
Geo-environment	11	400
Geo-information	3	87
Total	31	984

The table below lists the activities coordinated and facilitated by CCOP TS from 1 January to 31 December 2016.

Sector/Project/Activity	No. of Participants
GEO-RESOURCES	
CCOP CO2 Storage Mapping Program (CCS-M)	
CCS-M M2: National Coordinators Meeting/Workshop, 15-16 February 2016, Bangkok, Thailand	14
CCS-M T6: Training Course on Sequence Stratigraphy, 25-29 April 2015, Phnom Penh, Cambodia	36
CCS-M S6: Workshop on CO ₂ geological storage and CO ₂ for EOR, 7-9 June 2016, Hanoi, Vietnam	30
CCOP – KIGAM Unconventional Oil and Gas Project – "Mapping of Black Shale Formations for the Prediction of Shale Resources" (UnCon Project)	
UCM4: UnCon Project National Coordinators Meeting, 7-8 March 2016, Siem Reap, Cambodia	20
UCM5: National Coordinators Meeting and Workshop, 10-12 May 2016, Vientiane, Lao PDR	20
UCM6: National Coordinators Meeting and Workshop,16-18 August 2016, Danang, Vietnam	32
KIGAM-ISGeo-CCOP Regular Training courses	
KIGAM/ISGeo training course on "Petroleum Exploration, Development and Production", 15 February-11 March 2016, Daejeon, Republic of Korea	23
KIGAM/ISGeo training course on "Exploration and Evaluation of Mineral Resources", 18 April-13 May, 2016, Daejeon, Republic of Korea	15
KIGAM/ISGeo regular training course on "Aspiring Geoparks - Development and Preparation", 19-24 May, 2016, Daejeon, Republic of Korea	17

Sector/Project/Activity	No. of Participants
BGR-CCOP Workshop "Integrated water resource management in coastal zones with a focus on groundwater" – experiences in East and Southeast Asia countries", 19-21 January 2016, Can Tho, Vietnam	56
CCOP-GSJ/AIST-DGR Groundwater Project Phase III Kick-off Meeting, 16-18 March 2016, Hanoi, Vietnam	19
AAPG Geosciences Technology Workshop 2016 "Characterization of Asian Hydrocarbon Reservoirs", 31 March-1 April 2016, Bangkok, Thailand	80
3rd CCOP-Cheongsong-KIGAM-UNESCO Symposium on Developing Geoparks, 19-28 May 2016, Cheongsong, Republic of Korea	70
HUNRE – KKU – UQAT – CCOP Workshop "Sustainable Groundwater Development", 5-7 July 2016, Hanoi, Vietnam	40
The 23rd Electromagnetic Induction Workshop (EMIW2016), 14-20 August 2016, Chiangmai, Thailand	21
5th International Symposium & Exhibition – VACI2016 Vietnam Water Cooperation Initiative for Managing Transboundary Waters: From Policy to Practice, 2-4 October 2016, Hanoi, Vietnam	2
Energy China Forum (ECF) 2016: 6th Asia-Pacific Shale Gas Summit and Unconventional Resources Technology & Equipment EXPO, held 17-19 October 2016, in Jianguo Hotel, Shanghai, China	2
GEO-ENVIRONMENT SECTOR	
KIGAM-ISGeo-CCOP Regular Training courses	
Regular Training Course on "Groundwater and Environmental Geochemistry", 20 June-8 July 2016, International School for Geoscience Resources (IS-Geo) of KIGAM, Daejeon, Republic of Korea	25
Regular Training Course on Landslide and Slope Stability 2016, 31October-18 November, 2016 in the International School for Geoscience Resources of KIGAM, Daejeon, Korea	25
The 7th International Conference on Applied Geophysics-Geophysics towards Sustainable Development of Thailand and AEC (GEOPHYSICS 2016), 14-15 January 2016, the Miracle Grand Convention Hotel, Bangkok, Thailand	6
Workshop on Promoting Earth Science and Climate Change towards Sustainable Development, 17-19 February 2016, Kanchanaburi province, Thailand	55
The 2nd Asia-Pacific Business Forum: Korean CCUS Technology for Climate Change", 7-8 March 2016, Bangkok, Thailand	67
CCOP-VIETADAPT Workshop on "Geoscience supporting risk management, water and food security", 12 March 2016, Siem Reap, Cambodia	27
CCOP-KIGAM Volcano Monitoring Project in the East & Southeast Asia region – training course "GPS Data Processing and Analysis with GAMIT/GLOBK/TRACK", 23-27 May 2016, Daejeon, Republic of Korea	46
CCOP-KIGAM-UNESCO-MME Workshop "Climate Change and Groundwater Resources in the Mekong River Basin", 1-2 June 2016, Sihanoukville, Cambodia	28
Workshop on Marine Geoscience and Geohazards Reduction and Prevention for ASEAN Member States, 26-30 September 2016, Guangzhou, People's Republic of China	88
The 5th International Conference on Earth Science and Climate Change, 25-27 July 2016, Bangkok, Thailand	7

Sector/Project/Activity	No. of Participants
CCOP-VIETADAPT-SEADPRI Workshop on "Geoscience supporting risk management, water and food security", 30 October 2016, Bangkok, Thailand	26
GEO-INFORMATION SECTOR	
CCOP/ASEAN Harmonized Geology Project (Seamless Geology Project)	
CCOP-ASEAN Harmonized Geology Project Business Meeting, 8 March 2016, Siem Reap, Cambodia	16
CCOP-ASEAN Seamless Geology Project Meeting was held simultaneously with the 52nd CCOP Annual Session (31 Oct-3 Nov 2016), 2 Nov 2016, Bangkok, Thailand	19
CCOP Geoinformation Sharing Infrastructure for East and Southeast Asia (GSi) Project	
The 1st International Workshop on CCOP Geoinformation Sharing Infrastructure for East and Southeast Asia (GSi) Project, 20-22 September 2016, Solo, Indonesia	52

Publications

The following publications were produced during the year. Reports of the training, workshop and seminar are published on the CCOP website.

CCOP Annual Report 2015

The CCOP Annual Report 2015 has been published in February 2016, and distributed at the 66th SC Meeting in Sieam Reap, Cambodia, March 2016. It is available for download from the link: www.ccop.or.th/download/CCOP-AR2015.pdf.

CCOP Golden Jubilee Book

This book is in form of a pictorial history of 50 years of CCOP (meetings, programmes, personalities, events from the CCOP archive, from Member Countries, Cooperating Countries and personal archives). The 11MB pdf file of the book can be downloaded from the link, http://ccop.asia/pdf/publication/CCOP50thJubileeBook.pdf.

CCOP Through The Years

CCOP Through the Years, a compendium of 50 years of memories of former and current CCOP SC Chairmen, Advisory Group Chairmen, CCOPTS Director, CCOPTS Experts, etc, can be downloaded from this link, http://ccop.asia/pdf/publication/MemoriesBook2016.pdf.

Stone Heritage in East and Southeast Asia

This book covers some of the representative examples of stone heritage in East and Southeast Asia (the CCOP region) regardless of their size, scale and age; miniature or gigantic; from ancient to modern. This book is of 246 pages, and available both in printed and digital forms. The 22MB PDF file of the book can be downloaded from http://www.ccop.or.th/download/pub/ccop stone book low res.pdf.

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GW-6: Report of the CCOP-GSJ-NAWAPI Groundwater Phase III Project Meeting, 16-18 March 2016, Hanoi, Vietnam

This is the publication of the country reports presented at the CCOP-GSJ-NAWAPI Groundwater Phase III Meeting held on 16-18 March 2016, in Hanoi, Vietnam. Its pdf file is of about 4MB filesize, and can be downloaded from this link, http://ccop.asia/pdf/publication/GW-6.pdf.

Others

Paper on "CCOP at 50: Half a Century of Regional Geoscience Cooperation" was published in IUGS Journal - Episodes, Vol. 39, Issue 3, September 2016, http://www.episodes.org

Cooperation with ESCAP

ESCAP and CCOP continued to maintain consultations and cooperation through networking and exchange of publications. CCOP reports to the ESCAP Commission Sessions, takes part in the related technical meetings and participates in the Sub-Committee Meeting on Environment and Sustainable Development and ICT Committee Session.

Acknowledgements

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